CATALOGUE OF BROWN UNIVERSITY

1908-1909

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THE CATALOGUE
OF
BROWN UNIVERSITY

ONE HUNDRED AND FORTY-FIFTH YEAR

1908–1909

PROVIDENCE, RHODE ISLAND
PUBLISHED BY THE UNIVERSITY
1908

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CALENDAR 1908–1909

Vacations and holidays occurring within the academic year 1908–9 are indicated by dark type.

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THE UNIVERSITY CALENDAR 1908–1909

1908

September 2.	*Wednesday.* Annual Meeting of the Corporation (first Wednesday in September).
September 17–21.	*Thursday, Friday, Saturday, and Monday.* Examinations for admission to the Freshman class and to advanced standing.
September 22.	*Tuesday.* Last day for registration and enrolment of Undergraduate students.
September 23.	*Wednesday.* Academic Year begins (fourth Wednesday in September). Last day for registration of Graduate students.
October 3.	*Saturday.* Examination in Greek for the President's Premiums.
October 7.	*Wednesday.* Examination in Latin for the President's Premiums.
October 10.	*Saturday.* Examination in Mathematics for the Hartshorn Premiums.
October 14.	*Wednesday.* Examination in French for the President's Premiums.
October 17.	*Saturday.* Examination in German for the Caesar Misch Prizes.
November 26, 27.	*Thursday and Friday.* Thanksgiving Recess.
December 14–22.	*Monday to Tuesday.* Term examinations.
Dec. 23, 1908 to January 5, 1909.	*Wednesday to Tuesday.* Christmas Recess.

1909

January 5.	*Tuesday.* Last day for enrolment of Undergraduate students.
January 6.	*Wednesday.* Second Term begins.
January 25.	*Monday.* Last day for receiving essays submitted in competition for the Class of 1880 Prize.

JANUARY 26.	*Tuesday.* Preliminary discussion for the Class of 1880 Prizes.
FEBRUARY 1.	*Monday.* Last day for applications of competitors for the Carpenter Prizes in Elocution.
FEBRUARY 2.	*Tuesday.* Public discussion for the Class of 1880 Prizes.
FEBRUARY 22.	*Monday.* Washington's Birthday. No University exercises.
MARCH 15–23.	*Monday to Tuesday.* Term examinations.
MARCH 24–30.	*Wednesday to Tuesday.* SPRING RECESS.
MARCH 30.	*Tuesday.* Last day for enrolment of Undergraduate students.
MARCH 31.	*Wednesday.* THIRD TERM BEGINS.
APRIL 1.	*Thursday.* Last day for receiving applications for examination for the degree of Doctor of Philosophy, or of Master of Arts *in absentia.*
APRIL 2.	*Friday.* Last day for receiving essays submitted in competition for the Gaston Prize Medal.
APRIL 30.	*Friday.* Last day for receiving theses of candidates for the degree of Doctor of Philosophy.
MAY 1.	*Saturday.* Last day for receiving applications for the Grand Army of the Republic Fellowship. Last day for receiving Commencement orations.
MAY 4.	*Tuesday.* Carpenter Prize Speaking Contest.
MAY 11.	*Tuesday.* Gaston Prize Medal Competition.
MAY 18.	*Tuesday.* Hicks Prize Debate.
MAY 31.	*Monday.* Memorial Day. No University exercises.
JUNE 1.	*Tuesday.* Last day for examinations for advanced degrees.
JUNE 3–11.	*Thursday to Friday.* Term examinations.
JUNE 13.	*Sunday.* Baccalaureate Sermon, First Baptist Meeting House, 4.30 p.m.

JUNE 14.	*Monday.* Class Day.
JUNE 15.	*Tuesday.* Annual Meeting of the Phi Beta Kappa Society, Administration Building, 9.30 a.m. Ivy Day, Pembroke Hall. Annual Meeting of the Associated Alumni, Manning Hall, 2.30 p.m. Oration before the Phi Beta Kappa Society, Sayles Memorial Hall, 4 p.m.
JUNE 16.	*Wednesday.* ONE HUNDRED AND FORTY-FIRST ANNUAL COMMENCEMENT (third Wednesday in June), First Baptist Meeting House, 10 a.m.
JUNE 17.	*Thursday.* Meeting of the Corporation.
JUNE 17 to SEPT. 21.	SUMMER VACATION.
SEPTEMBER 1.	*Wednesday.* Annual Meeting of the Corporation (first Wednesday in September).
SEPT. 16–21.	*Thursday, Friday, Saturday, Monday, and Tuesday.* Examinations for admission to the Freshman class and to advanced standing.
SEPTEMBER 20, 21.	*Monday and Tuesday.* Registration of new students and enrolment of students previously in residence.
SEPTEMBER 22.	*Wednesday.* ACADEMIC YEAR BEGINS (fourth Wednesday in September).

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† On leave of absence during the academic year 1908–9.

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STANLEY BATES HARKNESS, A.B. — 30 Caswell Hall
Instructor in English

HENRY ENGLANDER, A.M. — 181 Reynolds Avenue
Lecturer in Biblical Literature and History

FREDERICK GEORGE KEYES, SC.M. — 33 Hope College
Instructor in Chemistry

HENRY BERNARDIN DROWNE, C.E. — 12 Brunonia Hall
Instructor in Civil Engineering

RAYMOND CLARE ARCHIBALD, PH.D. — 9 Charles Field Street
Instructor in Mathematics

NELS JOHANN LENNES, PH.D. — 125 Lloyd Avenue
Instructor in Mathematics

ARTHUR UPHAM POPE, A.M. — 157 Williams Street
Instructor in Philosophy

ALPHONSE MARIN LAMESLÉE, B. ès L., A.M. — 181 Angell Street
Instructor in French

FRANCIS JOSEPH NEEF, PH.B. — 303 Benefit Street
Instructor in German

ROBERT FRANKLIN FIELD, A.M. — 25 Wilson Street
Assistant in Physics

DAVID WILKINSON SMITH, A.M. — 27 Caswell Hall
Assistant in Greek

BENJAMIN LOUIS ANTOINE HÉNIN, B. ès L., LL.B.
Assistant in French — 21 University Hall

HARVEY MCLEOD KELLEY, A.M. — 4 Brunonia Hall
Assistant in Public Speaking

SAMUEL JACOB BEEBER, A.B. — 27 Brighton Street
Assistant in Chemistry

HARRY WOLCOTT ROBBINS, A.M. — 27 Caswell Hall
Assistant in English

ROBERT SYLVESTER CURLEY, A.B. — 428 Maxcy Hall
Assistant in Mechanical Engineering

NELSON CLARK DALE, SC.B. — 151 Morris Avenue
Assistant in Geology

PETER AUGUSTUS WORSLEY, A.B. — 22 Rosedale Street
Assistant in Geology

JAY PERKINS, M.D. — 106 Waterman Street
Demonstrator in Anatomy

JOHN BURNHAM FERGUSON, A.B., M.D. — 369 Broad Street
Demonstrator in Anatomy

THERON CLARK, A.B. — 152 Congdon Street
Assistant Registrar

EMMA BRADFORD STANTON, A.M. — Bristol
Registrar of the Women's College

HENRY DEWEES CADY — Warren
Instructor in Shop Practice

EDWIN AYLSWORTH BURLINGAME — 359 Brook Street
Superintendent of Grounds and Buildings

GEORGE ARNOLD MATTESON, M.D. — 112 Prospect Street
Physician to the University

JOHN MILTON BURNHAM, A.M. — 63 Elmwood Avenue
Assistant Librarian

EARL NORTHUP MANCHESTER, A.B. — 66 Meeting Street
Reference Librarian; Assistant Keeper of Graduate Records

LAURA RUSSELL GIBBS, L.S.B. — 47 George Street
Cataloguer

REBECCA PHILLIPS STEERE — 84 Waterman Street
Cataloguer in the John Carter Brown Library

GENE WILDER WARE, A.B. — 58 College Street
Organist and Director of Chapel Music

JOHN EDWARDS — 210 Doyle Avenue
Assistant in the Ladd Observatory

STANDING COMMITTEES OF THE FACULTY

ON REGISTRATION AND ATTENDANCE
Dean Meiklejohn, Professors Upton, Randall, Delabarre, and Fowler, Dean King, Mr. Guild.

ON THE CURRICULUM
Professors Poland, Davis, Gardner, Randall, Everett, Allinson, Hill, Mead, Meiklejohn, MacDonald, and von Klenze, Mr. Guild.

ON STUDENT ORGANIZATIONS
Professors Delabarre, Langdon, Hill, Potter, Meiklejohn, Blanchard, and Marvel.

ON STUDENT ADVISERS
Professors Allinson, Greene, Crosby, and Kirk.

OFFICE HOURS

THE PRESIDENT. 7 Administration Building: *11.30 a.m. to 12.30 p.m., except Mondays and Saturdays.*

THE DEAN OF THE UNIVERSITY. 5 Administration Building: *1.30 to 2.30 p.m., except Saturdays.*

THE REGISTRAR, AND SECRETARY OF THE FACULTY. 4 Administration Building: *8.30 a.m. to 4 p.m.; Saturdays to 1 p.m.*

THE DEAN OF THE GRADUATE DEPARTMENT. 5 or 6 Wilson Hall: *12.20 to 1.20 and 3 to 6 p.m.*

THE DEAN OF THE WOMEN'S COLLEGE. Pembroke Hall, Meeting Street: *10.15 to 11.25 a.m. except Saturdays.*

THE REGISTRAR OF THE WOMEN'S COLLEGE. Pembroke Hall, Meeting Street: *9 a.m. to 1 p.m., 2 to 4 p.m.; Saturdays 9.15 a.m. to 1 p.m.*

THE LIBRARIAN. The Library: *9 to 10 a.m., 3 to 4 p.m.*

THE SECRETARY OF THE TEACHERS' BUREAU. 10 Administration Building: *4.20 p.m. Mondays and Fridays; 5.20 p.m. Wednesdays; 12.20 p.m. Saturdays.*

THE SUPERINTENDENT OF GROUNDS AND BUILDINGS. 1 University Hall: *8 to 9 a.m; 1.30 to 2.30 p.m.*

THE KEEPER OF GRADUATE RECORDS. University Library: *9 a.m. to 12 m., 1 to 5 p.m.; Fridays 9 a.m to 12 m.*

HISTORY OF BROWN UNIVERSITY

A GENERATION before the establishment of any institution of higher education in Rhode Island, Dean (afterwards Bishop) Berkeley, in pursuance of his cherished design of planting a Christian college in America, chose this colony as his place of residence. Here, at Newport or in its vicinity, he lived for nearly three years, from 1729 to 1731. At the close of this period it became evident that the money which had been voted for the project by the House of Commons would not be paid, and Berkeley reluctantly abandoned his project and returned to England. Though he had no direct relation to the college afterwards established, yet he inspired an interest in higher education among the colonists and thus made easier the success of the later undertaking.

In 1762 the Philadelphia Baptist Association, in view of the disabilities attaching to Baptist students in most of the existing American colleges, welcomed a proposal offered by the Reverend Morgan Edwards, a clergyman of Welsh birth, at that time pastor of the First Baptist Church in Philadelphia, to found in Rhode Island a college that should be under the control of their own denomination. James Manning, who had just been graduated from Princeton, was appointed by the Association as its agent to establish "a seminary of polite literature subject to the government of the Baptists."

In deciding upon the location of the new college, a canvass of the colonies had shown the advantages to be clearly on the side of Rhode Island, which recognized absolute religious liberty, and was, moreover, a Baptist colony in origin and popular attachment. There was no rival institution in the field; and the important cities of Newport and Providence, the former being the second city in New England, furnished an encouraging prospect of future support. Accordingly, in 1764, the friends of the movement obtained from the General Assembly the charter which still remains in force. Although, under the rules of the charter, the President and a majority of both the Fellows and the Trustees must be Baptists, the three important positions of Chancellor, Secretary, and Treasurer are without denominational restriction, and all religious tests and sectarian instruction are strictly prohibited. The institution was known during the first forty years of its existence as Rhode Island College.

As the College was at the beginning without funds, and only a scanty return could be expected from students' fees, it was necessary that the president should support himself and his family by some other means. The founding of a Baptist church in Warren and the call of Mr. Manning to its pastorate offered a solution of the difficulty; and hither Mr. Manning brought his family in the spring of 1764. His first act towards the establishment of a college was the opening of a Latin school. This preparatory school was later removed with the College to Providence, where it flourished for a hundred and forty years under the name of the University Grammar School. At the second meeting of the Corporation, September 4, 1765, Mr. Manning was formally appointed "president of the College, professor of languages and other branches of learning;" the first student had been matriculated the day before. In the following year David Howell was appointed tutor, but no other addition was made to the Faculty until 1774. In 1769 the first class (of seven members) was graduated at Warren. This town had not generally been regarded as the permanent seat of the College, and the necessity which now arose of erecting a college building compelled a final choice of location. After a spirited contest for the honor among the leading towns of the colony, the choice fell upon Providence. Here in 1770 the first college building, the present University Hall, modeled after Nassau Hall at Princeton, and a house for the president were both built on the college grounds, the cost being covered by subscriptions, chiefly from residents of Providence.

In 1771 President Manning was called to the pastorate of the First Baptist Church in Providence; he served the church in this capacity, in addition to his college duties, from that date until the close of his life. In December, 1776, the work of the College was interrupted by the Revolutionary War, and it was not resumed until the fall of 1782, University Hall being used meanwhile as a barrack and hospital for the combined American and French troops. Upon the reorganization of the College important additions were made to the library and the philosophical apparatus. The first college funds, amounting to $4500, were collected in England and Ireland by the Reverend Morgan Edwards in 1767–8. In the next two years the Reverend Hezekiah Smith obtained subscriptions amounting to $2500 in South Carolina and Georgia. The former contribution was made a permanent fund; the latter was expended in the construc-

tion of the college buildings. Further gifts were received for a time from the Philadelphia, Charleston, and Warren Baptist Associations, but they appear to have ceased with the outbreak of the Revolutionary War. In 1791, after twenty-nine years of service as founder and director of Rhode Island College, President Manning died. The College had become firmly established, with a graduate roll of one hundred and forty-nine; the last graduating class, that of 1790, had numbered twenty-two. At the time of his death the Faculty consisted of the president, four professors, and two tutors. The discipline during this period had been strict and paternal, the officers of instruction living under the same roof with the students and making frequent visits of inspection to their rooms. President Manning at first taught all the branches studied, but was designated professor of languages, afterwards of moral philosophy. David Howell, his assistant, taught mathematics and natural philosophy, and is said to have taught also French, German, and Hebrew. He was appointed professor of natural philosophy in 1769, and of law in 1790, but never taught the latter subject. Benjamin Waterhouse was appointed professor of natural history in 1784; and Benjamin West, professor of mathematics and astronomy in 1786.

The successor of President Manning was the Reverend Jonathan Maxcy, a graduate in the class of 1787, who had been professor of divinity 1791–2. He served from 1792 until 1802, when he resigned his office to accept the presidency of Union College. During the last year of his administration at Rhode Island College a class numbering twenty-eight was graduated.

The third president of the College, the Reverend Asa Messer, a graduate in the class of 1790, who had served as professor of learned languages 1796–9, and of mathematics and natural philosophy 1799–1802, directed the affairs of the institution from 1802 until his resignation in 1826. During his presidency of twenty-four years the College was greatly expanded. A class numbering forty-eight was graduated in 1825, the Faculty in that year consisting of the president, nine professors, and two tutors. A medical school was established, which existed from 1811 until 1828 and sent out eighty-seven graduates. The special professorships created for the medical school were: materia medica and botany, 1811; anatomy and surgery, 1811; chemistry, 1811; theory and practice of medicine, 1815. A professor of moral philosophy and metaphysics was appointed in 1811; one of oratory and belles-lettres in 1815; and one of the Latin and

Greek languages and literature in 1825. In 1826 the permanent funds of the University amounted to $31,300.

In 1792 Nicholas Brown, a graduate in the class of 1786, gave $500 with which to purchase law books for the Library. In 1804 he endowed a professorship of oratory and belles-lettres. In the same year the name of the institution was changed in his honor to Brown University. In 1822 he built Hope College at his own expense, in 1834 Manning Hall, and in 1840 the second president's house. The last-named building has been used since 1899 as a refectory. The total value of Mr. Brown's various gifts to the University was not less than $160,000. Mr. Brown also served the University in a most efficient way as treasurer 1796–1825. He was trustee 1791–1825, and fellow from 1825 until his death in 1841.

The fourth president, the Reverend Francis Wayland, entered upon his official duties in 1827. He at once raised the standard of scholarship and gradually increased the scope of the instruction. He finally accomplished an entire reorganization of the University on the basis of the elective principle. In accordance with this "New System," the bachelor's degree was given for a three years' course and the master's degree for a four years' course. Graduate study and special study were both encouraged; and the sciences, in accordance with the spirit of the charter, were made prominent in the curriculum. This system was not put into operation until 1850, and was fully in force only until his retirement five years later. The increase in the scope of the curriculum during President Wayland's administration is clearly shown in the following list of subjects to which professors or instructors were assigned at the dates annexed: chemistry, physiology, and geology, 1834; moral and intellectual philosophy, 1834; belles-lettres, 1835; rhetoric, 1837; Hebrew literature, 1838; modern languages and literature, 1843; Greek, 1843; Latin, 1844; French, 1844; history and political economy, 1850; natural philosophy and civil engineering, 1850; chemistry applied to the arts, 1850; rhetoric and English literature, 1851; didactics (*i. e.*, pedagogy), 1851; analytical chemistry, 1854. The influence of President Wayland was felt, not in an increase of the number of students, but in an elevation of the intellectual and moral tone of the institution. Discipline, which had grown lax, was strictly enforced. During his administration the college grounds were laid out, and the Library was placed on a sound financial basis. Rhode Island Hall was erected in 1840 from sub-

scriptions by Rhode Island men and women. The permanent funds were increased to $200,000. Dr. Wayland resigned the presidency in 1855, having won for the University, by his fame as a writer, thinker, and educational reformer, an enviable distinction both at home and abroad.

The fifth president of the University, the Reverend Barnas Sears, a graduate in the class of 1825, held office from 1855 until 1867, when he resigned the presidency to become general agent of the Peabody Education Fund. During his incumbency the only new subject added to the curriculum was physical geography, in 1864. Although the term of President Sears covered the financial crisis of 1857 and the Civil War, a notable increase was made both in the funds and in the number of students. A system of scholarships was established, and over $220,000 was collected in subscriptions. The Chemical Laboratory was built in 1862. In the last class that entered under President Sears seventy-three students were enrolled. Three hundred graduates and students of Brown entered the Union service, 1861–5. Of these twenty-one laid down their lives.

The Reverend Alexis Caswell, a graduate in the class of 1822, was the sixth president of the University, his term covering the years 1868–72. Under his administration the department of physics was organized, and the endowment was increased from $365,000 to a sum exceeding $550,000.

Upon the resignation of Dr. Caswell, the Reverend Ezekiel Gilman Robinson, a graduate in the class of 1838, became president. Dr. Robinson's presidency extended over the seventeen years 1872–1889. This period was marked by a further increase in the attendance, the class of 1889 being graduated with a membership of fifty-six. The following subjects were added to the curriculum, or were emphasized by the appointment of separate instructors: special branches of agriculture, 1872; zoölogy and agriculture, 1874; physiology, 1874; botany, 1877; zoölogy and geology, 1878; elocution, 1880; astronomy, 1884; logic, 1886; history, 1888; political economy, 1888. The funds were increased to $980,000, and important additions were made to the buildings. Rhode Island Hall was enlarged in 1875. The Library, the gift of John Carter Brown, of the class of 1816, was built in 1878, and Slater Hall, the gift of Horatio Nelson Slater, in 1879. Sayles Hall, the gift of William Francis Sayles, a memorial to his son, William Clark Sayles, a member of the class of 1878, was built in 1881. University Hall, which had been renovated

in 1850, was again renovated in 1883. Dr. Robinson recognized the fact that a great opportunity for a university existed at Brown, and, though he was not able fully to realize his purposes, he prepared the way for the great enlargement of the institution under his successor. Besides the addition of various courses, a beginning was made in systematic graduate instruction. Dr. Robinson resigned the presidency in 1889.

The eighth president of the University was the Reverend Elisha Benjamin Andrews, a graduate in the class of 1870. With his accession in 1889 the modern life of the University properly begins. In the year preceding his presidency three graduate students were enrolled; in the last year of his term of service the graduate students numbered 101, the total number of students for the same years being, respectively, 268 and 860. The officers of instruction for the corresponding years increased in number from twenty-two to seventy-three. All the old departments were expanded, and the number of departments was increased from sixteen in 1889–90 to twenty-five in 1897–8. The department of philosophy was enlarged by the addition of psychology and pedagogy. American and European history were assigned to separate professors, and political economy was made a department. The departments of Greek literature and history, Roman literature and history, English literature and language, Germanic languages and literatures, and Romance languages and literatures were reorganized and extended. Rhetoric and oratory were made an independent department. The departments of mathematics, mechanical engineering, astronomy, physics (including electrical engineering), chemistry, zoölogy, geology, and anthropology, and botany were extended in scope and thoroughness. New departments were formed for the subjects of social and political science including law, fine arts including the history of art and music, Indo-European philology, Biblical literature and history including the Semitic languages and New Testament Greek, mechanical drawing, civil engineering, comparative anatomy, military science and tactics, and bibliography.

The museum of fine arts was founded in 1889, and that of anthropology in 1891. The funds were increased to $1,125,685, and important additions were made to the buildings and grounds. In 1891 Hope College was renovated; Wilson Hall, the bequest of George Francis Wilson, was built; the Ladd Observatory was presented to the University by the Honorable Herbert W. Ladd; and the Lyman

Gymnasium, named in honor of its principal donor, was erected. Maxcy Hall was built in 1895. Three buildings, known as the Howell, Messer, and Brown Street houses were also secured for dormitory purposes. The old playground of the University, now known as Lincoln Field, was graded and fitted up for ball-games and other athletic purposes in 1889. In 1898 a new athletic field was laid out on Camp Street, a mile and a half from the University. In 1891 the Grand Army of the Republic Fellowship Fund of $10,000 was given to the University by the Rhode Island Department of that organization.

The Women's College was founded in October, 1891. At first only the privileges of University examinations and certificates of proficiency were granted. In June, 1892, all the College and University degrees and the graduate courses were opened to women. In November, 1897, the institution was accepted by the Corporation and officially designated the Women's College in Brown University. The immediate charge of this department, as of all others in the University, is in the hands of the Corporation. All instruction is given by members of the University Faculty. Pembroke Hall, which was built by the Rhode Island Society for the Collegiate Education of Women, was formally transferred to the University in October, 1897, and was accepted as the recitation hall of the Women's College.

In 1898 Dr. Andrews resigned the presidency to become Superintendent of Schools in Chicago. Dr. Benjamin Franklin Clarke, the senior member of the Faculty, who had served as president *pro tempore* during the absence of Dr. Andrews in Europe in 1896–7, was appointed president *ad interim*, and served during the academic year 1898–9.

The ninth president of the University is the Reverend William Herbert Perry Faunce, a graduate in the class of 1880, who entered upon his official duties on Commencement Day, 1899. At Commencement, 1900, announcement was made of an addition of over a million dollars to the endowment of the University. To this was added a year later a second million, including the endowment of the John Carter Brown Library. In 1900 the Slater Memorial Homestead was presented by Mrs. Horatio N. Slater, as a home for the students of the Women's College. In 1901 the president's house was erected at the corner of Hope and Manning streets. In 1902 the Van Wickle Administration Building was completed, this structure as well as the gates opposite being the bequest of Augustus Stout Van Wickle, of

the class of 1876. In 1904 Rockefeller Hall, the gift of John D. Rockefeller, was opened for the use of the Brown Union, a social organization of students and alumni which was formed in that year. In the same year the Engineering Building, on Lincoln Field, Caswell Hall, a dormitory fronting on Thayer Street, and the Colgate Hoyt swimming-pool, the gift of Colgate Hoyt, were erected, and a great organ, the gift of Lucian Sharpe, of the class of 1893, was placed in Sayles Hall. In 1904 the John Nicholas Brown Gate was built as a memorial to the late John Nicholas Brown by his widow. In the same year the Carrie Tower, a clock tower, erected by Paul Bajnotti, of Turin, to the memory of his wife, Carrie Mathilde Brown, was presented to the University. Since 1901 an iron fence with brick and stone posts has been built around the front and the middle campus, each section having been contributed by or in memory of some class. The classes of 1872, 1884, and 1887 have contributed gates. In the summer of 1905 the exterior of University Hall was restored to its original appearance at the expense of Marsden J. Perry. In 1906 the Gymnasium of the Women's College was erected by Mr. Frank A. Sayles as a memorial to his sister, Martha Fessenden Sayles. In 1907 the Marston Field House, the gift of Edgar L. Marston, Esq., of New York, was erected on Andrews Field. In the same year Mr. Stephen O. Metcalf gave a lot of land adjoining the Women's College and had the grounds laid out at his expense. In April, 1908, the funds of the University, exclusive of those pertaining to the John Carter Brown Library, amounted to $3,305,390.63.

The Library of the University dates from 1767, when the Reverend Morgan Edwards collected books for it in England. The collection was at first kept in University Hall. It was removed to Manning Hall upon the completion of that building in 1835, and in 1878 was transferred to the present building. In1842 it contained ten thousand volumes; in 1878, forty-eight thousand. The present number, including the books in the twenty department libraries, but not including the John Carter Brown Library, is over one hundred and fifty thousand. The Providence Library Company, now the Athenaeum, the Library of the Rhode Island Historical Society, the State Law Library, and the State Library have been most valuable adjuncts to the University Library; and, since the opening of the Providence Public Library in 1878, members of the University have made constant use of its choice and readily available resources. The Library Fund, established under President Wayland, has been supplemented

by ten special funds, devoted to the departments of European history, United States history, mediaeval and church history, botany, the arts of design, biology, the classical languages and literatures, English literature, and American poetry. Gifts of one thousand dollars each have been made to the Library in recent years by the classes of 1872, 1884, 1885, 1886, 1887, and 1888. In 1884, by the will of the Honorable Henry B. Anthony, the Library came into possession of the Harris Collection of American Poetry numbering five thousand volumes, since increased to more than seven thousand. In 1901 there was presented to the University the John Carter Brown Library, the most complete collection in the world on the history of the two Americas down to the end of the eighteenth century; the sum of $500,000 was also given as an endowment and the sum of $150,000 for the erection of a building. The building was dedicated in May, 1904. In October, 1903, the University received by the gift of Marsden J. Perry the Sidney S. Rider Collection of manuscripts, books, and other material, forming a library of the first importance to students of the history of Rhode Island.

At the close of the one hundred and fortieth Commencement of the University, in 1908, there were enrolled the names of 6,681 graduates,—6,224 men and 457 women. Of this number 5,906 had received the College or University first degree; 104, exclusive of the foregoing, had received advanced degrees; 69, not previously reckoned, had received the degree of Doctor of Medicine; 617 others had received honorary degrees. Of the entire number, 3,689, or fifty-five per cent, were living.

THE
CHARTER OF BROWN UNIVERSITY‡

Date of the Charter

BY the Honorable the Governor and Company of the English Colony of Rhode Island and Providence Plantations in New England in America in General Assembly convened at East Greenwich within and for the Colony aforesaid on the last Monday in February One Thousand Seven Hundred and Sixty-four.

Preamble

Whereas Institutions for liberal Education are highly beneficial to Society by forming the rising Generation to Virtue, Knowledge, and useful Literature; and thus preserving in the Community a Succession of Men duly qualified for discharging the Offices of Life with Usefulness and Reputation; they have therefore justly merited and received the the Attention and Encouragement of every wise and well regulated State: And whereas a Public School or Seminary, erected for that Purpose within this Colony to which the Youth may freely resort for Education in the vernacular and learned Languages, and in the liberal Arts and Sciences would be for the general Advantage and Honor of the Government: And whereas Daniel Jenckes Esq; Nicholas Tillinghast Esq; Nicholas Gardiner Esq; Col. Josias Lyndon, Col. Elisha Reynolds, Peleg Thurston Esq; Simon Pease Esq; John Tillinghast Esq; George Hazard Esq; Col. Job Bennet, Nicholas Easton Esq; Arthur Fenner Esq; Mr. Ezekiel Gardiner, Mr. John Waterman, Mr. James Barker Junr, Mr. John Holmes, Solomon Drown Esq; Mr. Samuel Winsor, Mr. Joseph Sheldon, Charles Rhodes Esq; Mr. Nicholas Brown, Col, Barzillai Richmond, Mr. John Brown, Mr. Gideon Hoxsey, Mr. Thomas Eyres, Mr. Thomas Potter, Jun. Mr. Peleg Barker, Mr. Edward Thurston, Mr. William Redwood, Joseph Clarke Esq; Mr. John G Wanton, and Mr. Thomas Robinson with many other Persons, appear as Undertakers in the valuable Design: And thereupon a Petition hath been preferred to this Assembly, praying that full Liberty and Power may be granted unto such of them, with others, as are hereafter

Petition of the Undertakers

‡ *With the exception of the marginal analysis and the notes, this reprint is an exact copy of the original charter engrossed on parchment, preserved in the archives of the University.*

mentioned, to found, endow, order, and govern a College or University, within this Colony; and that, for the more effectual Execution of this Design, they may be incorporated into one Body Politic, to be known in the Law, with the Powers, Privileges, and Franchises, necessary for the Purpose aforesaid.

Now therefore know ye, That being willing to encourage and patronize such an honorable and useful Institution, we the said Governor and Company, in General Assembly convened, Do, for ourselves and our Successors, in and by Virtue of the Power and Authority, within the Jurisdiction of this Colony, to us by the Royal Charter granted, and committed, Enact, Grant, Constitute, Ordain, and Declare, And it is hereby Enacted, Granted, Constituted, Ordained and Declared, That the Hon. Stephen Hopkins Esq; the Hon. Joseph Wanton Jun. Esq; the Hon. Samuel Ward Esq; the Hon. William Ellery Esq; John Tillinghast Esq; Simon Pease Esq; James Honyman Esq; Nicholas Easton Esq; Nicholas Tillinghast Esq; Darius Sessions Esq; Joseph Harris Esq; Francis Willet Esq; William Logan Esq; Daniel Jenckes Esq; George Hazard Esq; Nicholas Brown Esq; Jeremiah Niles Esq; Joshua Babcock Esq; Mr. John G Wanton, the Rev. Edward Upham, the Rev. Jeremiah Condy, the Rev. Marmaduke Brown, the Rev. Gardner Thurston, the Rev. Ezra Stiles, the Rev. John Greaves, the Rev. John Maxson, the Rev. Samuel Winsor, the Rev. John Gano, the Rev. Morgan Edwards, the Rev. Isaac Eaton, the Rev. Samuel Stillman, the Rev. Samuel Jones, the Rev. James Manning, the Rev. Russel Mason, Col. Elisha Reynolds, Col. Josias Lyndon, Col. Job Bennet, Mr. Ephraim Bowen, Joshua Clarke Esq; Capt. Jonathan Slade, John Taylor Esq; Mr. Robert Shettell Jones, Azariah Dunham Esq; Mr. Edward Thurston Junr. Mr. Thomas Eyres, Mr. Thomas Haszard, and Mr. Peleg Barker, or such, or so many of them as shall, within Twelve Months from the Date hereof, accept of this Trust, and qualify themselves as herein after directed, and their Successors, shall be forever hereafter One Body Corporate and Politic, in Fact and Name, to be known in Law by the Name of Trustees and Fellows of the College or University, in the English Colony of Rhode Island, and Providence Plantations in New England, in America; the Trustees and Fellows at any Time hereafter, giving such more particular Name to the Col-

Original Corporators

Name

lege, in Honor of the greatest and most distinguished Benefactor, ‡ or otherwise, as they shall think proper: Which Name, so given, shall, in all Acts, Instruments and Doings of said Body Politic, be superadded to their Corporate Name aforesaid, and become a Part of their legal Appellation by which it shall be forever known and distinguished: And that, by the same Name, they and their Successors, chosen by themselves as hereafter prescribed, shall, and may, have perpetual Succession; and shall, and may be Persons able and capable, in the Law, to sue and be sued, to plead and to be impleaded, to answer and to be answered unto, to defend and to be defended against, in all and singular Suits, Causes, Matters, Actions and Doings, of what Kind soever: And also to have, take, possess, purchase, acquire, or otherwise receive and hold Lands, Tenements, Hereditaments, Goods, Chattles, or other Estates; of all which they may, and shall stand and be seized, notwithstanding any Misnomer of the College, or the Corporation thereof; and by whatever Name, or however imperfectly the same shall be described in Gift, Bequests, and Assignments, provided the true Intent of the Assignor or Benefactor be evident:

Powers of Corporation

‡ *The following is an extract from the records of a meeting of the Corporation held September 6, 1804:*

A LETTER from Mr. Nicholas Brown, dated on this present day, having been read in the following words, to—wit:

Gentlemen: PROVIDENCE, *September 6, 1804.*

IT is known to you that I have long had an attachment to this institution as the place where my deceased brother Moses and myself received our education. This attachment derives additional strength from the recollection that my late honored Father was among the earliest, and most zealous patrons of the College; and is confirmed by my regard to the cause of Literature in general. Under these impressions I hereby make a donation of Five Thousand Dollars to Rhode Island College, to remain in perpetuity as a fund for the establishment of a Professorship of Oratory and Belles Lettres. The money will be paid next Commencement and is to be vested in such funds as the Corporation shall direct for its augumentation to a sufficiency in your judgment to produce a competent annual Salary for the within mentioned Professorship.

I am very respectfully, Gentlemen, with my best wishes for the prosperity of the College, your obedient friend,

NICHOLAS BROWN.

Honored Corporation of Rhode Island College.

IT is therefore voted: That the thanks of this Corporation be presented to Mr. Nicholas Brown for the aforesaid Donation, and it is further Voted, That this College be called and known in all future time by the Name of Brown University in Providence in the State of Rhode Island and Providence Plantations.

Also the same to grant, demise, aliene, lease, use, manage and improve according to the Tenor of the Donations, and to the Purposes, Trusts, and Uses to which they shall be seized thereof. And full Liberty, Power, and Authority is hereby granted unto the said Trustees and Fellows, and their Successors, to found a College, or University, within this Colony, for promoting the liberal Arts, and universal Literature: And with the Monies, Estates, and Revenues, of which they shall from Time to Time become legally seized as aforesaid, to endow the same: And erect the necessary Buildings and Edifices thereof on such Place within this Colony as they shall think convenient: And generally to regulate, order, and govern the same, appoint officers, and make Laws, as herein after prescribed; and hold, use, and enjoy all the Liberties, Privileges, Exemptions, Dignities and Immunities, enjoyed by any College, or University, whatever.

To found, endow and govern the College

And furthermore, That the said Trustees and Fellows, and their Successors, shall, and may, forever hereafter have a Publick Seal to use for all Causes, Matters, and Affairs, whatever, of them and their Successors, and the same Seal to alter, break, and make anew, from Time to Time, at their Will and Pleasure; which Seal shall always be deposited with the President, or Senior Fellow.

Seal

And furthermore, By the Authority aforesaid, It is hereby Enacted, Ordained and Declared, That it is now, and at all Times hereafter shall continue to be the unalterable Constitution of this College, or University, that the Corporation thereof shall consist of Two Branches, to wit: That of the Trustees, and that of the Fellowship, with distinct, separate, and respective Powers: And that the Number of the Trustees shall, and may be Thirty-six; of which Twenty-two shall forever be elected of the Denomination called Baptists, or Antipædobaptists; Five shall forever be elected of the Denomination called Friends, or Quakers; Four shall forever be elected of the Denomination called Congregationalists, and Five shall forever be elected of the Denomination called Episcopalians: And that the Succession in this Branch shall be forever chosen and filled up from the respective Denominations in this Proportion, and according to these Num-

Corporation with two branches

Number and denomination of the Trustees

bers; which are hereby fixed, and shall remain to Perpetuity immutably the same. And that the said Stephen Hopkins, Joseph Wanton, Samuel Ward, William Ellery, John Tillinghast, Simon Pease, James Honyman, Nicholas Easton, Nicholas Tillinghast, Darius Sessions, Joseph Harris, Francis Willett, Daniel Jenckes, George Hazard, Nicholas Brown, Jeremiah Niles, John G. Wanton, Joshua Clarke, Gardner Thurston, John Greaves, John Maxson, John Gano, Samuel Winsor, Isaac Eaton, Samuel Stillman, Russel Mason, Elisha Reynolds, Josias Lyndon, Job Bennet, Ephraim Bowen, John Taylor, Jonathan Slade, Robert Shettell Jones, Azariah Dunham, Edward Thurston Junr, and Peleg Barker, or such, or so many of them as shall qualify themselves as aforesaid, shall be, and they are hereby declared and established the first and present Trustees. And that the Number of the Fellows, inclusive of the President (who shall always be a Fellow) shall and may be Twelve; of which Eight shall be forever elected of the Denomination called Baptists, or Antipædobaptists; and the rest indifferently of any or all Denominations. And that the Rev. Edward Upham, the Rev. Jeremiah Condy, the Rev, Marmaduke Brown, the Rev. Morgan Edwards, the Rev, Ezra Stiles, the Rev, Samuel Jones, the Rev, James Manning, William Logan Esq; Joshua Babcock Esq; Mr Thomas Eyres, and Mr. Thomas Haszard, or such, or so many of them as shall qualify themselves as aforesaid, shall be, and they are hereby declared the first and present Fellows and Fellowship, to whom the President, when hereafter elected, (who shall forever be of the Denomination called Baptists or Antipædobaptists) shall be joined to compleat the Number.

Original Trustees

Number and denomination of the Fellows

Original Fellows

And furthermore, It is Declared and Ordained, That the Succession in both Branches, shall at all Times hereafter be filled up and supplied according to these Numbers, and this established and invariable Proportion from the respective Denominations by the separate Election of both Branches of this Corporation, which shall at all Times sit and act by separate and distinct Powers: And in general, in Order to the Validity and Consummation of all Acts, there shall be in the Exercise of their respective separate and distinct Powers, the joint Con-

Relative numbers always the same

Concurrent action of Trustees and Fellows

currence of the Trustees and Fellows, by their respective Majorities, except in adjudging and conferring the Academical Degrees, which shall forever belong, exclusively, to the Fellowship as a learned Faculty.

Degrees

And furthermore, It is Constituted, That the Instruction and immediate Government of the College shall forever be, and rest in the President and Fellows or Fellowship.

Government by the President and Fellows

And furthermore, It is Ordained, That there shall be a general Meeting of the Corporation on the First Wednesday in September annually, within the College Edifice, and until the same be built, at such Place as they shall appoint, to consult, advise and transact the Affairs of the College or University: At which or at any other Time, the Public Commencement may be held and celebrated. And that on any special Emergencies, the President, with any Two of the Fellows, or any Three of the Fellows, exclusive of the President, may convoke, and they are hereby empowered to convoke an Assembly of the Corporation on Twenty Days Notice: And that in all Meetings, the major Vote of those present of the Two Branches respectively, shall be deemed their respective Majorities aforesaid: Provided, That not less than Twelve of the Trustees, and Five of the Fellows, be a Quorum of their respective Branches. That the President, or, in his Absence, the Senior Fellow present, shall always be Moderator of the Fellows: That the Corporation, at their annual Meetings, once in Three Years, or oftener in Case of Death or Removal, shall, and may choose a Chancellor of the University, and Treasurer, from among the Trustees, and a Secretary from among the Fellows: That the Nomination of the Chancellor shall be in the Trustees, whose Office shall be only to preside as a Moderator of the Trustees; and that in his Absence, the Trustees shall choose a Moderator for the Time being, by the Name of Vice-Chancellor: and at any of their Meetings, duly formed as aforesaid, shall and may be elected a Trustee or Fellow, or Trustees, or Fellows, in the Room of those nominated in this

Annual Meeting

Special Meetings

Quorum

Moderator of Fellows

Chancellor, Treasurer and Secretary chosen triennially

Vice-Chancellor

Charter, who may refuse to accept, or in the Room of those who may die, resign, or be removed.

Vacancies to be filled

And furthermore, It is Enacted, Ordained and Declared, That this Corporation, at any of their Meetings, regularly convened as aforesaid, shall and may elect and appoint the President and Professor of Languages, and the several Parts of Literature: And upon the Demise of him or them, or either of them, their Resignation or Removal from his or their Office, for Misdemeanor, Incapacity, or Unfaithfulness, (for which he or they are hereby declared removable by this Corporation) others to elect and appoint in their Room and Stead: And at such Meeting, upon the Nomination of the Fellows, to elect and appoint Tutors, Stewards, Butlers, and all such other Officers usually appointed in Colleges or Universities, as they shall find necessary, and think fit to appoint for the promoting liberal Education, and the well ordering the Affairs of this College; and them or any of them, at their Discretion to remove, and substitute others in their Places. And in Case any President, Trustee or Fellow, shall see Cause to change his religious Denomination, the Corporation is hereby empowered to declare his or their Place or Places vacant, and may proceed to fill up it or them accordingly, as before directed, otherwise each Trustee and Fellow, not an Officer of Instruction, shall continue in his Office during Life, or until Resignation. And further, in Case either of the religious Denomnations should decline taking a Part in this Catholic, comprehensive and liberal Institution, the Trustees and Fellows shall and may compleat their Number, by electing from their respective Denominations, always preserving their respective Proportions herein before prescribed and determined: And all Elections shall be by Ballot or written Suffrage: And that a Quorum of Four Trustees & Three Fellows may transact any Business, excepting placing the College Edifice, Election of Trustees, President, Fellows and Professors, that is to say, so that their Acts shall be of Force and Validity until the next annual Meeting, and no longer.

Election of President and Professors

Appointment of other officers

Vacancy by change of denomination

Elections by ballot

Minor quorum

And it is further Enacted and Ordained by the Authority aforesaid, That each Trustee and Fellow, as well those nominated in

this Charter, as all that shall hereafter be duly elected, shall, previous to their acting in a corporate Capacity, take the Engagement of Allegiance prescribed by the Law of this Colony, to his Majesty King George the Third, His Heirs and Rightful Successors to the Crown of Great-Britain, which Engagement shall be administered to the present Trustees and Fellows, by the Governor or Deputy-Governor of this Colony, and to those from Time to Time hereafter elected by their respective Moderators, who are hereby empowered to administer the same.‡

Engagement

And still more clearly to define and ascertain the respective Powers of the Two Branches, on making and enacting Laws, It is further Ordained and Declared, That the Fellowship shall have Power, and are hereby empowered from Time to Time, and at all Times hereafter, to make, enact and publish all such Laws, Statutes, Regulations and Ordinances, with Penalties, as to them shall seem meet, for the successful Instruction and Goverment of said College or University, not contrary to the Spirit, Extent, true Meaning and Intention of the Acts of the British Parliament, or the Laws of this Colony; and the same Laws, Statutes and Ordinances to repeal: Which Laws, and the Repeals thereof, shall be laid before the Trustees, and with their Approbation shall be of Force and Validity, but not otherwise. And further the Trustees and Fellows, at their Meetings aforesaid, shall ascertain the Salaries of the respective Officers, and order the Monies assessed on the Students for Tuition, Fines and incidental Expenses, to be collected by the Steward, or such other Officer as they shall appoint to collect the same; and the same with their Revenues, and other College Estates in the Hands of the Treasurer, to appropriate in discharging Salaries and other College Debts: And the College Accounts shall be annually auditted and adjusted in the Meeting of the Corporation.

Laws of the College

Salaries of officers

Audit of accounts

And furthermore, It is hereby Enacted and Declared, That

‡ *September 4, 1782, the Corporation by vote omitted from the engagement the acknowledgment of allegiance to the British crown. The form of engagement has since been modified at various times; the present form is as follows: You* [*person's name*] *being elected a member of this Corporation to the place of* [*Fellow or Trustee*] *do solemnly engage true allegiance to bear to the United States of America, and faithfully to discharge the duties of your present appointment: And this engagement you make and give on the peril of the penalty of perjury.*

No religious tests

into this liberal and catholic Institution shall never be admitted any religious Tests: But on the contrary, all the Members hereof shall forever enjoy full, free, absolute, and uninterrupted Liberty of Conscience: And that the Places of Professors, Tutors, and all other Officers, the President alone excepted, shall be free and open for all Denominations of Protestants: And that Youth of all religious Denominations shall and may be freely admitted to the equal Advantages, Emoluments and Honors of the College or University; and shall receive a like, fair, generous, and equal Treatment during their Residence therein, they conducting themselves peaceably, and conforming to the Laws and Statutes thereof. And that the public Teaching shall, in general, respect the Sciences; and that the Sectarian Differences of Opinions, shall not make any Part of the public and classical Instruction: Although all religious Controversies may be studied freely, examined and explained by the President, Professors, and Tutors, in a personal, separate and distinct Manner, to the Youth of any or each Denomination: And above all, a constant Regard be paid to, and effectual Care taken of, the Morals of the College.

Fellows to confer degrees

And furthermore, for the Honor and Encouragement of Literature, we Constitute and Declare, the Fellowship aforesaid, a Learned Faculty; and do hereby give, grant unto, and invest them, and their Successors, with full Power and Authority, and they are hereby authorized and empowered, by their President, and in his Absence by the Senior Fellow, or One of the Fellows appointed by themselves at the anniversary Commencement, or at any other Times, and at all Times hereafter, to admit to, and confer any and all the learned Degrees, which can or ought to be given and conferred in any of the Colleges or Universities in America; or any such other Degrees of literary Honor as they shall devise, upon any and all such Candidates and Persons as the President and Fellows, or Fellowship, shall judge worthy of the Academical Honors: Which Power of conferring Degrees is hereby restricted to the learned Faculty, who shall or may issue Diplomas or Certificates of such Degrees, or confer Degrees by Diplomas, and authenticate them with the Public Seal of the Corporation, and the Hands of the President and Secretary, and of all the Professors, as Witnesses, and deliver them to the graduates as honorable and perpetual Testimonies.

Diplomas granted

And furthermore, for the greater Encouragement of this Seminary of Learning, and that the same may be amply endowed and enfranchised with the same Privileges, Dignities, and Immunities enjoyed by the American Colleges, and European Universities, We do Grant, Enact, Ordain, and Declare, And it is hereby Granted, Enacted, Ordained, and Declared, That the College Estate, the Estates, Persons, and Families of the President and Professors, for the Time being, lying and being within the Colony, with the Persons of the Tutors and Students, during their Residence at the College, shall be freed and exempted from all Taxes,‡ serving on Juries, and menial Services: And that the Persons aforesaid shall be exempted from

Exemption from taxation, &c.

‡ *February 11, 1863, the Corporation voted as follows:*

WHEREAS the General Assembly of the State of Rhode Island at its present session on the 11th day of February 1863, has passed an Act the principal Section of which is in the following words viz: Section 1. The Corporation of Brown University in Providence consenting hereto that the estates, persons and families of the President and Professors for the time being, and their successors in office, shall not hereafter be freed and exempted from taxes for more than the amount of Ten Thousand dollars for each of such officers, his estates persons and family included.

And Whereas the Institution of Brown University, was established by its founders, was incorporated with liberal franchises by the State, has been maintained solely by private benefactions; all uniting for the same noble object, that is, to create and promote a seminary of religion and learning within this state whose beneficent influences should be diffused, at home and abroad through all time.

And Whereas those influences can, and will be most happily diffused and continued by a cordial good will and a harmonious coöperation between the General Assembly and citizens of this State and the University.

And Whereas the General Assembly by its Act aforesaid has expressed the opinion that the President and Professors should bear a portion of the burdens of taxation from which they are exempted by our charter, and has made the validity of its said Act to depend upon the consent of this Corporation thereto, thereby affirming and maintaining the inviolability of said Charter.

THEREFORE, in order to manifest our cordial compliance with a reasonable wish of the General Assembly as expressed in said Act, It is hereby Voted and declared by the Corporation of Brown University, that being authorized by the President and Professors of said University, this Corporation does in behalf of the President and Professors and in behalf of this Corporation consent to the said Act passed by the General Assembly of the State of Rhode Island at its present session, as aforesaid—and the Secretary of this Corporation is hereby instructed to file a copy of this vote under the seal of the Corporation and certified by himself in the Office of the Secretary of State, as proof of the consent of this Corporation thereto.

The above Report was accepted and the Vote was adopted unanimously.

bearing Arms, Impresses and Military Services, except in case of an Invasion.

And furthermore, for establishing the Perpetuity of this Corporation, and in Case that at any Time hereafter, through Oversight, or otherwise through Misaprehensions, and mistaken Constructions of the Powers, Liberties and Franchises herein contained, any Laws should be enacted, or any Matters done and transacted by this Corporation contrary to the Tenor of this Charter, It is hereby Enacted, Ordained and Declared, That all such Laws, Acts, and Doings, shall be in themselves null and void: Yet, Nevertheless, the same shall not in any Courts of Law, or by the General Assembly, be deemed, taken, interpreted, or adjudged into an Avoidance, Defeazance or Forfeiture of this Charter: But that the same shall be, and remain unhurt, inviolate, and entire unto the said Corporation, in perpetual Succession: Which Corporation may, at all Times, and forever hereafter proceed and continue to act: And all their Acts, conformable to the Powers, Tenor, true Intent and Meaning of the Charter, shall be, and remain in full Force and Validity, the Nullity and Avoidance of any such illegal Acts to the contrary in any wise notwithstanding.

Perpetuity of the Corporation

And lastly, We the Governor and Company aforesaid, Do, for ourselves and our Successors, forever hereby Enact, Grant and Confirm unto the said Trustees and Fellows, and to their Successors, That this Charter of Incorporation, and every Part thereof, shall be good and available in all Things in the Law, according to our true Intent and Meaning: And shall be construed, reputed, and adjudged in all Cases most favorably on the Behalf and for the best Benefit and Behoof of the said Trustees and Fellows, and their Successors, so as most effectually to answer the valuable Ends of this useful Institution.

Charter for the benefit of the Corporation and the College

In full Testimony of which Grant, and of all the Articles and Matters therein contained, the said Governor and Company do hereby order, That this Act shall be signed by the Governor and Secretary, and sealed with the Public Seal of this Colony, and registered in the Colony's Records: And that the same, or an Exemplification thereof, shall be

Signed and sealed

a sufficient Warrant to the said Corporation to hold, use and exercise all the Powers, Franchises, and Immunities herein contained.

In Conformity to the above Act, SAMUEL WARD, ESQ; Governor, Captain-General, and Commander in Chief, of and over the Colony aforesaid doth hereunto subscribe his Name, and hath caused the Seal of said Colony to be affixed the Twenty-fourth Day of October One Thousand Seven Hundred and Sixty-five, and in the Fifth Year of the Reign of his Most Sacred Majesty George the Third by the Grace of God King of Great Britain, &c.

SAM: WARD

By His Honor's Command
EDWD THURSTON jun D: Secry.

ADMISSION TO THE UNIVERSITY

METHODS OF ADMISSION TO THE FRESHMAN CLASS

I. ENTRANCE EXAMINATIONS CONDUCTED BY THE UNIVERSITY. Examinations for admission to the Freshman class are given by the University in September at the times and places indicated below. The University no longer offers entrance examinations in June; candidates desiring to be examined in June must take the examinations conducted under the supervision of the College Entrance Examination Board, for which see pages 42, 43. A candidate may, at his option, take all his examinations in June or in September, or he may take part in June and part in September. Before taking any examination conducted by the University, a candidate must present to the Registrar a letter of recommendation from the principal of his preparatory school and secure a card admitting him to the examination. This may be done by correspondence, provided that the written application and the recommendation are received not less than one week before the date of the first examination.

If a candidate offers subjects in excess of those required for admission, he may be examined in them at the times scheduled below and receive credit for them as college studies.

The order of the examinations in 1909 will be as follows:

THURSDAY, SEPTEMBER 16

Algebra, 27 Wilson Hall, 8 a.m. to 10 a.m.
Plane Geometry, 27 Wilson Hall, 10 a.m. to 12 m.
Elementary French, 2 Wilson Hall, 1 p.m. to 3 p.m.
Advanced French, 2 Wilson Hall, 3 p.m. to 5 p.m.

FRIDAY, SEPTEMBER 17

English A, 26 Wilson Hall, 8 a.m. to 9.30 a.m.
English B, 26 Wilson Hall, 9.30 a.m. to 11 a.m.
Elementary Latin, 25 Wilson Hall, 12 m. to 2 p.m.
Advanced Latin, 25 Wilson Hall, 2 p.m. to 3.30 p.m.
American History, 27 Wilson Hall, 3 p.m. to 5 p.m.

SATURDAY, SEPTEMBER 18

Elementary German, 2 Wilson Hall, 8 a.m. to 10 a.m.
Advanced German, 2 Wilson Hall, 10 a.m. to 12 m.
Chemistry, 2 Wilson Hall, 1 p.m. to 3 p.m.
Solid Geometry, 27 Wilson Hall, 3 p.m. to 5 p.m.
Plane Trigonometry, 27 Wilson Hall, 5 p.m. to 7 p.m.

Monday, September 20

Astronomy, 25 Wilson Hall, 8 a.m. to 10 a.m.
Physiography, 25 Wilson Hall, 10 a.m. to 12 m.
Botany, 2 Wilson Hall, 8 a.m. to 10 a.m.
Greek and Roman History, 25 Wilson Hall, 1 p.m. to 3 p.m.
Physics, 1 Wilson Hall, 4 p.m. to 6 p.m.

Tuesday, September 21

Elementary Greek, 2 Wilson Hall, 8 a.m. to 10 a.m.
Advanced Greek, 2 Wilson Hall, 10 a.m. to 11.30 a.m.
English History, 25 Wilson Hall, 12.30 p.m. to 2.30 p.m.
Medieval and Modern History, 26 Wilson Hall, 2.30 p.m. to 4.30 p.m.

For students already pursuing courses in the University, entrance examinations are also given by the University at the close of the Christmas recess. Students desiring to take these examinations must file written applications with the Registrar before December 1. No student who has failed in an entrance examination will be granted a second examination at any time other than September, except on presentation of a tutor's certificate that he is prepared for such examination and on payment of a fee of two dollars. No entrance examinations other than those appointed above will be held unless ordered by vote of the Committee on Registration and Attendance.

II. ENTRANCE EXAMINATIONS CONDUCTED BY THE COLLEGE ENTRANCE EXAMINATION BOARD. Examinations conducted under the supervision of the College Entrance Examination Board will be accepted in place of the corresponding examinations conducted by Brown University. In 1909 these examinations will be held June 14–19.

All applications for such examinations must be addressed to the Secretary of the College Entrance Examination Board, Post Office Sub-Station 84, New York, and must be made upon a blank form to be obtained from the Secretary of the Board upon application. Applications for examination at points in the United States east of the Mississippi River, also at Minneapolis, St. Louis, and other points on the Mississippi River, must be received by the Secretary of the Board on or before Monday, May 31, 1909; applications for examination elsewhere in the United States or in Canada must be received on or before Monday, May 24, 1909; and applications for examination at points outside the United States and Canada must be received on or before Monday, May 10, 1909. Applications received later than the dates named will be accepted when it is possible to arrange for the examinations of the candidates concerned, but only upon the payment of $5.00 in addition to the regular fee.

The examination fee is $5.00 for all candidates examined at points in the United States and Canada, and $15.00 for all candidates examined at points outside of the United States and Canada. The fee (which cannot be accepted in advance of the application) should be remitted by postal order, express order,

or draft on New York, to the order of the College Entrance Examination Board.

A list of the places at which examinations are to be held by the Board in June, 1909, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

III. ADMISSION BY CERTIFICATE. Students are admitted upon presentation of a certificate signed by the principal of any school which has the privilege of issuing certificates to Brown University.

Principals of schools in New England who desire the certificate privilege for Brown University, or for any other college represented on the New England College Entrance Certificate Board, should address the Secretary of the Board, Professor Nathaniel F. Davis, 159 Brown Street, Providence, R. I., who will furnish the necessary application blanks. These blanks must be returned to him before April 1 of the year for which the certificate privilege is desired.

The principals of schools situated outside of New England who desire the certificate privilege must make application to the Registrar of the University before May 1, and must furnish satisfactory evidence that the course of study in the school meets the requirements for admission. Blank forms for this purpose will be supplied on request. Certificates from the New York Board of Regents are accepted for the specified subjects so far as they coincide with the entrance requirements of Brown University.

Certificates are accepted for admission to the Freshman class only, not for admission to advanced standing. If any candidate offers subjects in excess of those required for admission he may be examined in them at the times indicated on pages 41, 42, and receive credit for them as college studies.

Blank forms for the certification of candidates may be obtained from the Registrar by the principals of schools having the privilege of certification. These forms should be filled out and returned to him by July 1. When a student has attended more than one school, a letter of recommendation from the principal of the school last attended must accompany the certificate.

ENTRANCE REQUIREMENTS FOR THE VARIOUS DEGREES

FOR THE DEGREE OF BACHELOR OF ARTS. In Group I all subjects must be presented. In addition seven points must be presented from Groups II and III. In Group II subjects aggregating at least six points, including at least three points in ancient languages and at least one point in modern languages, must be presented. In Group III one subject may be presented.

GROUP I. *English;* see page 45. *Algebra;* see page 46. *Plane Geometry;* see page 46. *Greek and Roman History;* see page 51.

GROUP II. *Latin* (*elementary and advanced*), *3 points;* see page 48. *Greek* (*elementary*), *2 points;* see page 48. *Greek* (*advanced*), *1 point;* see page 48. *French* (*elementary*), *1 point;* see page 49. *French* (*advanced*), *1 point;* see page 49. *German* (*elementary*), *1 point;* see page 50. *German* (*advanced*), *1 point;* see page 51.

GROUP III. *Solid Geometry and Plane Trigonometry, 1 point;* see pages 47, 48. *Medieval and Modern History, or English History, or American History, 1 point;* see page 52. *Physics, 1 point;* see page 52. *Chemistry, 1 point;* see page 52.

FOR THE DEGREE OF BACHELOR OF PHILOSOPHY. In Group I all subjects must be presented. In addition, seven points must be presented from Groups II and III. In Group II two or more languages are required, aggregating at least three points. In Group III free selection is allowed to complete the seven points.

GROUP I. *English;* see page 45. *Algebra;* see page 46. *Plane Geometry;* see page 46. *Greek and Roman History, or Medieval and Modern History, or English History, or American History;* see page 52.

GROUP II. *Latin* (*elementary*), *2 points;* see page 48. *Latin* (*advanced*), *1 point;* see page 48. *Greek* (*elementary*), *2 points;* see page 48. *Greek* (*advanced*), *1 point;* see page 48. *French* (*elementary*), *1 point;* see page 49. *French* (*advanced*), *1 point;* see page 49. *German* (*elementary*), *1 point;* see page 50. *German* (*advanced*), *1 point;* see page 51.

GROUP III. *Solid Geometry and Plane Trigonometry, 1 point;* see pages 47, 48. *History* (*any one of the four divisions not presented in Group I*), *1 point;* see page 52. *Physics, 1 point;* see page 52. *Chemistry, 1 point;* see page 52. *Astronomy, 1 point;* see page 53. *Physiography, 1 point;* see page 53.

‡FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING, MECHANICAL ENGINEERING, OR ELECTRICAL ENGINEERING. In Group I all subjects must be presented. In addition, four subjects must be presented from Groups II and III. In Group II at least three subjects must be presented. The fourth subject may be presented from either Group II or Group III.

GROUP I. *English;* see page 45. *Algebra;* see page 46. *Plane Geometry;* see page 46. *Solid Geometry;* see page 47. *Greek and Roman History, or Medieval and Modern History, or English History, or American History;* see page 52.

GROUP II. *French* (*elementary*); see page 49. *French* (*advanced*); see page 49.

‡ The Degree of Bachelor of Science is given in Brown University only for engineering courses. The work is mainly technical and offers no freedom of election.

German (*elementary*); see page 50. *German* (*advanced*); see page 51. *Chemistry;* see page 52.

GROUP III. *Latin* (*elementary*); see page 48. *Greek* (*elementary*); see page 48. *Physics;* see page 52. *History* (*any one of the four divisions not presented in Group I*); see page 52. *Astronomy;* see page 53. *Physiography;* see page 53. *Botany;* see page 53.

Applicants for admission who have had extensive training in freehand drawing, and who, by presentation of properly certified plates to the Committee on Registration and Attendance give evidence of exceptional ability in this work, may offer freehand drawing in place of any one of the subjects in Group III.

ENTRANCE REQUIREMENTS IN THE SEVERAL SUBJECTS

I. ENGLISH. Preparation in English has two main objects: (1) command of correct and clear English, spoken and written; (2) power to read with intelligence and appreciation. To secure the first end, training in grammar and the simpler principles of rhetoric, and frequent practice in writing, with corrections by the teacher, are necessary. The candidate must show a practical knowledge of the essentials of English grammar, including grammatical terminology, inflections, syntax, and the relations of phrases and of clauses. He must be able to spell, capitalize, and punctuate correctly; to speak with due regard to the standard of pronunciation; to use words with idiomatic accuracy; to write clear and correct sentences; and to construct unified, coherent paragraphs. The second end is sought through the reading of standard authors under the direction of the teacher. A number of pieces of good prose and poetry are prescribed, all of which should be read primarily with a view to understanding and enjoying them. Teachers are urged to require as much additional reading as possible, and to encourage the habit of voluntary reading.

The major portion of the examination paper is devoted to the prescribed reading, but ability to write clearly and correctly is quite as important as a knowledge of the books. The examination consists of two parts, which may be taken separately.

1. In the first part the candidate must show a general knowledge of the substance of the books named in list A below, and should also be able to answer simple questions on the lives of the authors.

2. In the second part the candidate will be required to answer questions on grammar and usage. He must also show such knowledge of the substance, structure, and style of the books named in list B below as will enable him to answer specific questions with accuracy and some detail; the questions, however, will test the student's knowledge of only the more important allusions and verbal difficulties and the simpler elements of literary form.

(A)

For Students entering in 1909: ‡ Shakspere's *Merchant of Venice* and *Julius Caesar;* Bunyan's *Pilgrim's Progress* (Part 1); *The Sir Roger de Coverley Papers* in *The Spectator;* Scott's *Lady of the Lake* and *Ivanhoe;* Irving's *Sketch Book;* Macaulay's *Lays of Ancient Rome;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* George Eliot's *Silas Marner.*

For Students entering in 1910 and 1911: ‡ Shakspere's *Merchant of Venice* and *Julius Caesar; The Sir Roger de Coverley Papers* in *The Spectator;* Franklin's *Autobiography;* Scott's *Lady of the Lake* and *Ivanhoe;* Hawthorne's *House of the Seven Gables;* Macaulay's *Lays of Ancient Rome:* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Dickens's *Tale of Two Cities.*

For Students entering in 1912: ‡ Shakspere's *As You Like It* and *Julius Caesar;* Franklin's *Autobiography;* Goldsmith's *Deserted Village;* Dickens's *Tale of Two Cities;* George Eliot's *Silas Marner;* Irving's *Sketch Book;* Scott's *Lady of the Lake;* Byron's *Mazeppa* and *The Prisoner of Chillon;* Macaulay's *Lays of Ancient Rome.*

(B)

For Students entering in 1909, 1910, and 1911: ‡ Shakspere's *Macbeth;* Milton's *L'Allegro, Il Penseroso, Comus,* and *Lycidas;* Burke's *Speech on Conciliation with America,* or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration;* Macaulay's *Life of Johnson,* or Carlyle's *Essay on Burns.*

For Students entering in 1912: ‡ Shakspere's *Macbeth;* Milton's *Comus, L'Allegro,* and *Il Penseroso,* or Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Burke's *Speech on Conciliation with America,* or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration;* Macaulay's *Life of Johnson,* or Carlyle's *Essay on Burns.*

The requirement of the College Entrance Examination Board in English is accepted as an equivalent of the requirement in English. Candidates who have credit for only part *a* of the Board's examination must take part 2 of the Brown University examination in English; those who have credit for only part *b* of the Board's examination must take part 1 of the Brown University examination.

‡ The lists for the classes entering in 1909, 1910, 1911, and 1912 are selected from the list adopted by the Conference on Uniform Entrance Requirements in English. Candidates may present other selections from that list provided they notify the Registrar, on or before the first day of August preceding the examination, of the substitutions they wish to make.

II. ALGEBRA. ‡ The requirement in Algebra covers the work through equations of the second degree, including the following subjects: factors, common divisors, and multiples; fractions, ratios, and proportions; negative quantities and the interpretation of negative results; the doctrine of exponents; radicals, and equations involving radicals; the binomial theorem for positive integral powers of the binomial, and the extraction of roots; putting questions into equations, and the reduction of equations; the ordinary methods of elimination; the solution of both numerical and literal equations of the first and second degrees with one or more unknown quantities, and of problems leading to such equations; arithmetical and geometrical progression.

It is important that the student should acquire a thorough knowledge not only of the practice, but also of the reasons involved in the elementary algebraic rules. He should likewise be able to use readily the more important formulae, as, for example, the quadratic formula.

The requirement of the College Entrance Examination Board in Mathematics *a* (i and ii) is accepted as an equivalent of the requirement in Algebra.

III. PLANE GEOMETRY. ‡ The requirement in Plane Geometry includes those propositions which are contained in the ordinary treatises and which are recognized as constituting the elements of Geometry; also original propositions, and problems in mensuration.

Teachers of Geometry should lay stress on accuracy of statement and elegance of form as well as on clear and strict reasoning. Mere memorizing should be avoided. Special care should be taken that in the proof of a proposition no lines be drawn unless their construction is proved to be possible.

The requirement of the College Entrance Examination Board in Mathematics *c* is accepted as an equivalent of the requirement in Plane Geometry.

IV. SOLID GEOMETRY. The requirement in Solid Geometry covers the usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle; the solution of numerous original exercises, including loci problems; applications to the mensuration of surfaces and solids.

The requirement of the College Entrance Examination Board in Mathematics *d* is accepted as an equivalent of the requirement in Solid Geometry.

V. PLANE TRIGONOMETRY. The requirement in Plane Trigonometry includes definitions and relations of the six trigonometric functions as ratios;

‡ Although candidates are not examined in Arithmetic, a knowledge of its fundamental principles and a careful training in accurate computation with whole numbers and with vulgar and decimal fractions are regarded as essential parts of a preparatory course.

The school curriculum should be so arranged that no term shall pass without some time being given to a mathematical subject, and that both Algebra and Geometry shall be taken either in review or in advance during the last year of the course. For a four-year course an average of two and one half hours a week should be given to mathematics.

circular measurement of angles; proofs of principal formulae, in particular for the sine, cosine, and tangent of the sum and difference of two angles, of the double and half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulae; solution of trigonometric equations of a simple character; the use of logarithms; the solution of right and oblique triangles; practical applications.

The requirement of the College Entrance Examination Board in Mathematics *f* is accepted as an equivalent of the requirement in Plane Trigonometry.

VI. ELEMENTARY LATIN. The requirement in Elementary Latin includes: (1) Caesar's *Gallic War*, books I–IV, or books I–III and Sallust's *Catiline*, with questions on the forms, the constructions, and the subject-matter; (2) Cicero's *Orations against Catiline* and *Oration for Archias*, with questions on the grammar and the subject-matter; (3) Ovid, ‡ twenty-five hundred lines, with questions on the subject-matter and prosody; (4) translation at sight of ordinary passages from Caesar and Cicero, with questions on the ordinary forms and constructions; (5) translation into Latin of simple English sentences.

The requirement of the College Entrance Examination Board in Latin *a* (i and ii), *b*, *c*, *g*, and *m* is accepted as an equivalent of the requirement in Elementary Latin.

VII. ADVANCED LATIN. The requirement in Advanced Latin includes: (1) Vergil's *Aeneid*, books I–VI, or books I–V and the *Eclogues*, with questions on the constructions, the subject-matter, and prosody; (2) translation at sight of prose and verse, with questions on the constructions, the subject-matter, and prosody; (3) translation into Latin of a continuous passage of English narrative prepared from some portion of the prescribed prose.

The requirement of the College Entrance Examination Board in Latin *d*, *l*, *p*, and *q* is accepted as an equivalent of the requirement in Advanced Latin.

VIII. ELEMENTARY GREEK. The requirement in Elementary Greek includes: (1) Xenophon's *Anabasis*, books I–IV, with attention not only to language, but to subject-matter as well; (2) grammar, including a familiar knowledge of inflection, word-formation, and ordinary syntax. This will be tested by: (*a*) questions upon a passage from the *Anabasis;* (*b*) translation into Greek, with accents, of simple English sentences.

The requirement of the College Entrance Examination Board in Greek *a* (i and ii) and *b* is accepted as an equivalent of the requirement in Elementary Greek.

IX. ADVANCED GREEK. The requirement in Advanced Greek includes: (1) three books of Homer's *Iliad* or *Odyssey* with questions upon meter, Homeric

‡ An equivalent amount of prose or poetry (preferably poetry) will be accepted in place of the requirement in Ovid.

dialect, etc., or (upon request four weeks in advance of the examination) an equivalent amount of a prose author; (2) translation at sight of simple Attic prose or Homer; (3) translation into Greek, with accents, of a continuous passage of English narrative, based upon material similar to the *Anabasis*.

The requirement of the College Entrance Examination Board in Greek *c*, *f*, *g*, and *h* is accepted as an equivalent of the requirement in Advanced Greek.

X. ELEMENTARY FRENCH. Candidates presenting elementary French should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of every-day life or based upon a portion of the French text read, and to answer questions upon the rudiments of grammar.

The work of preparation should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and more common irregular verbs, plural nouns, adjectives, participles, and pronouns; the partitive constructions; the order of words in the sentence, and the elementary rules of syntax, including the simpler uses of the conditional and the subjunctive; (3) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 200 to 400 duodecimo pages‡ of easy modern prose in the form of stories, plays, or historical or biographical sketches, with constant practice in translating into French easy variations upon the texts read. Suitable elementary texts are: Daudet's easier short stories, Erckmann-Chatrian's stories, Enault's *Le chien du capitaine*, Foa's *Contes biographiques* and *Le petit Robinson*, Labiche and Martin's *La poudre aux yeux* and *Le voyage de M. Perrichon*, Laurie's *Mémoires d'un collégien*, Féval's *La fée des grèves*, Mérimée's *Colomba*, extracts from Michelet, Sarcey's *Siège de Paris*, Verne's stories.

The requirement of the College Entrance Examination Board in French *a* is accepted as an equivalent of the requirement in Elementary French.

XI. ADVANCED FRENCH. Candidates presenting Advanced French should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

The work should comprise the reading of from 400 to 600 pages (including the amount read for the elementary requirement)§ of French of ordinary difficulty, of which a portion should be in the dramatic form; constant practice in giving French paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate com-

‡ For students entering in 1910 or after, 250–400 duodecimo pages.

§ For students entering in 1910 or after, 400 pages in addition to the amount read for the elementary requirement.

pleteness; writing from dictation. Suitable texts are: About's stories, Augier and Sandeau's *Le gendre de M. Poirier*, Béranger's poems, Daudet's *La Belle-Nivernaise*, La Brète's *Mon oncle et mon curé*, Madame de Sévigné's letters, Anatole France's *Le crime de Sylvestre Bonnard* and *Le livre de mon ami*, Pailleron's *Le monde où l'on s'ennuie*, Hugo's *La chute*, Loti's *Pêcheur d'Islande*, Sandeau's *Mademoiselle de la Seiglière*, Thiers's *L'expédition de Bonaparte en Egypte*, Vigny's *La canne de jonc*, Coppée's poems, de Maupassant's stories.

The requirement of the College Entrance Examination Board in French *b* is accepted as an equivalent of the requirement in Advanced French.

XII. ELEMENTARY GERMAN. Candidates presenting elementary German should be able to read at sight and to translate a passage of very easy dialogue or narrative prose, help being given upon unusual words and constructions; to put into German short English sentences taken from the language of every-day life or based upon the text given for translation; and to answer questions upon the rudiments of the grammar.

Two years should be given to preparation in this subject. During the first year the work should comprise: (1) careful drill upon pronunciation; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar, that is, upon the inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives, pronouns, weak verbs, and the more usual strong verbs; also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word-order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (5) the reading of about 75 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson and in the reproduction from memory of sentences previously read.

During the second year the work should comprise: (1) the reading of about 125 pages of literature in the form of easy stories and plays; (2) practice in the translation into German of easy variations upon the matter read and in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments of the grammar, directed to the ends of enabling the pupil, first, to use his knowledge with facility in the formation of sentences, and, secondly, to state his knowledge correctly in the technical language of grammar.

Stories suitable for the second year of the elementary course can be selected from the following list: Andersen's *Märchen* and *Bilderbuch ohne Bilder;* Arnold's *Fritz auf Ferien;* Baumbach's *Die Nonna* and *Der Schwiegersohn;* Gerstäcker's *Germelshausen;* Heyse's *L'Arrabiata*, *Das Mädchen von Treppi*, and *Anfang und Ende;* Hillern's *Höher als die Kirche;* Jensen's *Die braune Erica;* Leander's *Träumereien* and *Kleine Geschichten;* Seidel's *Märchen;*

Stökl's *Unter dem Christbaum;* Storm's *In St. Jürgen* and *Geschichten aus der Tonne.* Among the available plays are Benedix's *Der Prozess, Der Weiberfeind,* and *Günstige Vorzeichen;* Elz's *Er ist nicht eifersüchtig;* Wichert's *An der Majorsecke;* Wilhelmi's *Einer muss heiraten.* It is recommended, however, that not more than one play be read; the narrative style should predominate. A satisfactory selection would be: about forty pages of Andersen's *Märchen* or *Bilderbuch,* or Leander's *Träumereien, Das kalte Herz, Höher als die Kirche,* or *In St. Jürgen;* a good story by Heyse, Baumbach, or Seidel; and *Der Prozess.*

The requirement of the College Entrance Examination Board in German *a* is accepted as an equivalent of the requirement in Elementary German.

XIII. ADVANCED GERMAN. Candidates presenting Advanced German should be able to read at sight German prose of ordinary difficulty, whether recent or classical; to put into German a connected passage of simple English paraphrased from a given text in German; to answer any grammatical questions relating to the usual forms and essential principles of the language, including syntax and word-formation, and to translate and explain (so far as explanation may be necessary) a passage of classical literature taken from some text previously studied.

The work should comprise, in addition to the elementary course, the reading of about 300 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; also grammatical drill upon the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and the subjunctive), and word-order and word-formation.

Suitable reading matter can be selected from such works as the following: Ebner-Eschenbach's *Die Freiherren von Gemperlein;* Freytag's *Bilder aus der deutschen Vergangenheit* — for example, *Karl der Grosse, Aus den Kreuzzügen, Doktor Luther, Aus dem Staat Friedrichs des Grossen;* Fouqué's *Undine;* Goethe's *Hermann und Dorothea* and *Egmont;* Heine's poems and *Reisebilder;* Hoffmann's *Historische Erzählungen;* Lessing's *Minna von Barnhelm;* Meyer's *Der Heilige;* Moser's *Der Bibliothekar;* Riehl's *Novellen* — for example, *Burg Neideck, Der Fluch der Schönheit, Der stumme Ratsherr, Das Spielmannkind;* Rosegger's *Waldheimat;* Schiller's *Wilhelm Tell, Die Jungfrau von Orleans, Das Lied von der Glocke, Balladen;* Uhland's poems; Wildenbruch's *Das edle Blut;* Keller's *Romeo und Julia auf dem Dorfe;* Liliencron's *Anno 1870.*

The requirement of the College Entrance Examination Board in German *b* is accepted as an equivalent of the requirement in Advanced German.

XIV. HISTORY. For examination in any of the historical fields named below the candidate will be expected to show such knowledge as may be acquired from the study of a good modern text-book of not less than three hundred pages,

supplemented by not less than three hundred pages of suitable parallel reading. Questions on historical geography will be included in the examination. For preparation in either 1, 2, 3, or 4, a course of study equivalent to at least three lessons a week for one year is necessary.

No candidate will be allowed to present more than two of the four divisions.

1. Greek and Roman history: (*a*) Greek history to the death of Alexander, with due reference to Greek life, literature, and art; (*b*) Roman history to the end of the reign of Marcus Aurelius, with due reference to literature and government.

2. Medieval and modern European history from the time of the barbarian invasions to the present.

3. English history, with due reference to political and social development and to international relations.

4. American history, including the elements of Civil Government.

The requirements of the College Entrance Examination Board in History are accepted as equivalents of the requirements in History.

XV. PHYSICS. The candidate's preparation in Physics should include: (1) the study of at least one standard text-book, supplemented by the use of many and varied numerical problems, to the end that a pupil may gain a comprehensive and connected view of the most important facts and laws in elementary physics; (2) instruction, by lecture-table demonstrations, upon the general principles involved in the pupil's laboratory investigations; (3) individual laboratory work comprising at least thirty-five exercises. Every candidate must present, as a part of the examination, a note-book, certified by the teacher, containing in the candidate's own language a description of his laboratory exercises, with a careful record of the steps, observations, and results of each exercise. The note-book must afford clear evidence of the pupil's ability to make accurate observations and to draw correct conclusions.

Students who offer Physics for entrance will be permitted to enter the more advanced courses if, on consultation with the officers of the department, they are found to have the requisite qualifications.

The requirement of the College Entrance Examination Board in Physics is accepted as an equivalent of the requirement in Physics.

XVI. CHEMISTRY.§ The requirement includes a knowledge of the more important non-metals and their principal combinations, about ten important metals and their principal salts, the more important topics of chemical philosophy, chemical nomenclature and notation, and the ordinary methods of stoichiometry. Candidates should have personally performed about one hundred simple experiments (those in Appleton's *Young Chemist* are mentioned as illustrations, but equivalents will be accepted). Every candidate must present, as a part of the examination, a note-book, certified by the teacher, con-

§ For admission to Chemistry 4, 5, 6, see page 81.

taining in the candidate's own language a description of his laboratory exercises with a careful record of the steps, observations, and results of each exercise. A course accomplishing the preparation above outlined will require an amount of time equivalent to three hours a week for one school year.

The requirement of the College Entrance Examination Board in Chemistry is accepted as an equivalent of the requirement in Chemistry.

XVII. ASTRONOMY. The requirement in Astronomy implies class instruction for the equivalent of three hours a week for a school year in the elementary principles of the science, including observations of the heavens with reference to the positions and movements of the heavenly bodies. The following are the chief topics to be studied: *The Celestial Sphere;* designation of the directions of a heavenly body. *The Earth;* its axial rotation; time, latitude, longitude; its orbital revolution; precession; aberration, the seasons, equation of time, the calendar. *The Moon;* its axial rotation, orbital motion, librations, phases, surface features, physical condition; lunar and solar eclipses. *The Sun;* its rotation, physical characteristics, light, and heat. *The Planets;* apparent and real motions, individual characteristics. *The Law of Gravitation;* its control of the solar system; the tides. *Comets and Meteors;* their nature and motions. *The Stars;* designation, classification by constellations, motions, distance, brightness, variables. *Stellar Systems;* clusters, nebulae; the stellar universe, cosmogony.

As no examination in Astronomy is given by the College Entrance Examination Board, the examination in this subject must be taken in September at Brown University; see page 42.

XVIII. PHYSIOGRAPHY. The requirement in Physiography implies a thorough knowledge of the elementary principles as found in a standard textbook. The equivalent of a year's work of three hours a week is expected. The work should include the study of oceans, atmosphere, climate, weather, rivers; of land forms, their geographical distribution and classification, their origin, growth, and decay; and some study of the interrelation of man and nature. The candidate is required to submit attested reports of forty field and laboratory exercises.

The requirement of the College Entrance Examination Board in Geography is accepted as an equivalent of the requirement in Physiography.

XIX. BOTANY. The candidate is expected to do an amount of work equivalent to that outlined in the "briefer course" in Bergen and Davis's *Laboratory and Field Manual of Botany*, and their *Principles of Botany*, or to that indicated in Bergen's *Foundations of Botany*. A certified statement of the laboratory notes and drawings made in connection with the course must be submitted at the time of the examination.

The requirement of the College Entrance Examination Board in Botany is accepted as an equivalent of the requirement in Botany.

ADMISSION TO ADVANCED STANDING

A candidate for admission to advanced standing who comes from an approved institution of collegiate rank may receive credit, without examination, for work done at such institution, provided that he present to the Registrar a detailed statement of his previous work. This statement should include (1) a full list of the preparatory subjects accepted for admission by the institution previously attended; (2) a list of the subjects taken there, with their catalogue numbers and the standing attained therein by the student. It should be signed by the proper official and should be accompanied by a marked catalogue describing the subjects taken. If possible, it should be made out on the blank furnished by Brown University. The amount of credit to be given is determined by the Committee on Registration and Attendance.

Every other candidate for admission to advanced standing must first satisfy the entrance requirements of the course which he desires to enter. He may then receive credit for any subject included in the curriculum of the course, provided, first, that he notify in writing the Committee on Registration and Attendance at the time he applies for admission to the University of his intention to present the subject, and second, that he pass an examination in the subject before a date set by the Committee.

Every candidate must present a letter of honorable dismissal from the institution last attended.

Formal application for admission should be made to the Registrar, and should be sent, if possible, before August 1.

ADMISSION OF SPECIAL STUDENTS

Mature persons of good character who desire to pursue some special subjects and who have had the requisite preliminary training are allowed to enter the various courses of study in the University without becoming candidates for a degree. Special students are subject to the same regulations regarding attendance and examinations as candidates for degrees; they must take fifteen hours of class-room work a week unless satisfactory reasons for a smaller assignment are presented.

Applicants for registration as special students must present to the Registrar, on or before August 1 if possible, a certified and detailed statement of the nature and extent of their preparatory work, including testimonials of character and ability. Blanks for this statement will be furnished by the Registrar. In case a student has attended more than one institution, he must present credentials from all of them. Students who withdraw from a preparatory school before completing its course of study will not be admitted as special students unless the principal of the school distinctly recommends such action. Applicants must satisfy the Committee on Registration and Attendance, by pass-

ing the entrance examinations or presenting certificates, that they are qualified to pursue the courses desired.

Special students will be accepted as candidates for a degree only after they have fully satisfied the requirements for admission either by certificate or by examination.

ADMISSION OF GRADUATE STUDENTS

To be admitted as a graduate student, an applicant must have received the degree of Bachelor of Arts, of Philosophy, of Science,‡ or of Letters from Brown University or some other college of good standing; or, being a student in Brown University, must have completed with a rank of C the work leading to the degree of Bachelor of Arts, of Philosophy, or of Science, with the exception of such an amount as the Committee on Registration and Attendance will allow him to take in excess of a full year's work (fifteen hours a week).

Persons who have obtained the degree of Bachelor of Arts, of Philosophy, of Science, or of Letters, and who desire to pursue graduate studies without being candidates for an advanced degree, are admitted as special graduate students. Such students are subject to all the regulations of the University regarding graduate students except those which relate to candidacy for degrees.

REGISTRATION AND ENROLMENT OF UNDERGRADUATES

REGISTRATION. In September of each year all new students, whether candidates for a degree or special students, must report at the Administration Building between 9 a.m. and 1 p.m. or between 2.30 p.m. and 5 p.m. on the Monday or Tuesday preceding the opening of the first term, and fill out registration cards for the whole of the ensuing year. Failure to comply with this rule will be treated as late registration and a fee of three dollars will be charged. All new students must present at or before the time of registration all credentials necessary for admission as candidates for a degree or as special students.

In May of each year all undergraduates in residence, whether candidates for a degree or special students, must obtain at the Registrar's office registration cards for the next year; these cards must be filled out by the students with a statement of the courses elected for the whole of the ensuing year, and returned not later than June 1. Failure to comply with this rule will be treated as late registration and a fee of three dollars will be charged.

Courses bearing a single number must be elected as a whole. When term courses are grouped in one paragraph (*e. g.* Astronomy 1, 2, 3), the second term may not be taken without the first, nor the third without the second,

‡ The degree of Bachelor of Science when given for technical work does not lead to the degree of Master of Arts or Doctor of Philosophy in Brown University.

unless specific statement to the contrary is made. In starred courses a final mark covering the work of the course as a whole will be given at the end of the course, the marks given at the end of the preceding term or terms being regarded as temporary. Changes in registration will be allowed only on presentation of sufficient reasons to the Committee on Registration and Attendance. Requests for permission to make changes in September must be presented to the committee between 9 a.m. and 1 p.m. or between 2.30 p.m. and 5 p.m. on the Monday or Tuesday preceding the opening of the first term. Requests for permission to make changes for the second or third term must be presented to the committee before the beginning of the examinations of the first and second terms respectively, unless these requests are the result of failures, in which case they must be presented in writing to the Registrar two days before the opening of the second and third terms respectively.

ENROLMENT. In September all students whose registration cards have been already approved must report at the Registrar's office between 9.30 a.m. and 5 p.m. on the Monday or Tuesday preceding the opening of the first term and have their names checked as enrolled for the term. Failure to report will be treated as late enrolment and a fee of three dollars will be charged.

At the beginning of the second and third terms all undergraduates must report at the Registrar's office between 9.30 a.m. and 5 p.m. on one of the two days preceding the opening of the term and have their names checked as enrolled for the term. Failure to report will be treated as late enrolment and a fee of three dollars charged.

REGISTRATION AND ENROLMENT OF GRADUATE STUDENTS

On or before the first day of the academic year, every candidate for registration as a graduate student must file an application with the Dean of the Graduate Department naming the departments, not exceeding three, which he wishes to enter. The application must be made on a blank provided by the Dean, and the blank must be signed by the heads of the departments concerned. The candidate, if not a student or graduate of Brown University, must submit to the Dean, with his application, his diploma or other official evidence of having received a first academic degree, together with a marked catalogue or detailed statement showing the academic courses he has pursued.

A student who has been registered as a graduate student is enrolled as a candidate for a degree when his course of study for the degree has been approved by the Dean of the Graduate Department and by the Faculty. Although graduates of other colleges of good standing are entitled to registration as graduate students, they are not enrolled as candidates for degrees unless the course of study previously pursued by them is, in the opinion of the Dean of the Graduate Department acting in consultation with the Committee

on Registration and Attendance, substantially equivalent to the course leading to the corresponding degree in Brown University. Graduates of colleges in which the course of study is not, in the opinion of this joint committee, equivalent to the corresponding course at Brown University, will be registered as graduate students, but if enrolled they will be required to make up their deficiency under the direction of the committee.

Candidates for advanced degrees must have their selection of courses approved by the heads of the departments in which they are working, and a statement of these courses must be submitted by the heads of the departments to the Dean of the Graduate Department on or before October 15. In the case of candidates for the degree of Doctor of Philosophy the statement submitted in the first year of candidacy may be a preliminary outline of the course, but a final statement must be submitted by the head of the department in which the major subject lies not later than October 15 in the last year of candidacy. No change can be made without the consent of the Dean of the Graduate Department and of the head of the department which offers the course.

REQUIREMENTS FOR DEGREES

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

I. PRESCRIBED SUBJECTS

ANCIENT Languages (either Latin or Greek, or both). Six hours. At least three hours must be taken in the Freshman year, and the six hours must be completed by the end of the Sophomore year.

Modern Languages (either French or German, or both). Six hours. At least three hours must be taken in the Freshman year, and the six hours must be completed by the end of the Sophomore year.

Students presenting elementary French only must continue French in the Freshman year and take elementary German in either the Freshman or the Sophomore year. Students presenting elementary German only must continue German in the Freshman year and take elementary French in either the Freshman or the Sophomore year. Students presenting elementary French and elementary German only must continue both languages, but may postpone the continuation of one language until the Sophomore year. Students presenting elementary work in one language and elementary and advanced work in the other must take in the Freshman year the language in which the elementary work only was presented. Students presenting elementary and advanced work in both languages may take the required six hours in either French or German, or both.

Mathematics. Four or five hours. Freshman year. Four hours for students not presenting Solid Geometry and Plane Trigonometry. Five hours for students presenting Solid Geometry and Plane Trigonometry.

English. Rhetoric and Composition. Three hours. Freshman year.

European History. Three hours. Sophomore or Junior year.

English Literature. Any one of the courses in English from 10 to 23 inclusive. Sophomore, Junior, or Senior year.

Physical or Natural Science. Some three-hour course continuous through the year. Freshman, Sophomore, or Junior year.

Political Science, Social Science, and Economics. One three-hour, one-term course in each of the three departments. Sophomore, Junior, or Senior year.

Philosophy. Some three-hour course continuous through the year. Sophomore, Junior, or Senior year. The courses in Education cannot be taken to satisfy this requirement.

II. REQUIREMENTS ARRANGED BY YEARS

FRESHMAN YEAR

I. Required Studies. *Latin* 1, 2, 3 or *Greek* 1, 2, 3. *French* 1 or 2, 3, 4 or *German* 1 or 2. *Mathematics* 3, 1, 2 or *Mathematics* 4, 5; 15, 16. *English* 1.

II. Elective Studies. One three-hour course continuous through the year must be chosen from the following list: *Latin* 1, 2, 3; for students presenting elementary and advanced Latin for admission. *Greek* A, B, C; for students not presenting Greek for admission. *Greek* 1, 2, 3; for students presenting elementary and advanced Greek for admission. *French* 1; for students not presenting French for admission. *French* 2, 3, 4; for students presenting elementary French for admission. *French* 5, 6, 7; for students presenting advanced French for admission. *German* 1; for students not presenting German for admission. *German* 2; for students presenting elementary German for admission. *German* 6 or 7, or 23, 24, 25; for students presenting advanced German for admission. *Greek* 33, *Latin* 28, 29 (*Greek and Roman Life*); for all students. *Chemistry* 1, 2, 3;‡ for all students. *Botany* 1 or *Biology* 1; for all students.

SOPHOMORE YEAR

I. That portion of the required work in ancient and modern languages not completed in the Freshman year.

II. Other required and elective courses sufficient with those taken under I to make fifteen hours a week.

JUNIOR YEAR

I. The required History and Physical or Natural Science, if not previously taken.

II. Other required and elective courses sufficient with those taken under I to make fifteen hours a week.

SENIOR YEAR

I. All required courses not previously taken.

II. Elective courses sufficient with those taken under I to make fifteen hours a week.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF PHILOSOPHY

I. PRESCRIBED SUBJECTS

Modern Languages. An amount sufficient, with the work presented for admission, to complete the elementary course and a year of advanced work in both French and German. A student who is admitted in both advanced French

‡ For admission to Chemistry 4, 5, 6 see page 81.

and advanced German is required to continue one of these languages for one year, three hours a week.

Mathematics. Four or five hours. Freshman year. Four hours for students not presenting Solid Geometry and Plane Trigonometry. Five hours for students presenting Solid Geometry and Plane Trigonometry.

English. Rhetoric and Composition. Three hours. Freshman year.

European History. Three hours. Sophomore or Junior year.

Physical or Natural Science. Some three-hour course continuous through the year. Freshman, Sophomore, or Junior year.

Philosophy. Some three-hour course continuous through the year. Sophomore, Junior, or Senior year. The courses in Education cannot be taken to satisfy this requirement.

II. REQUIREMENTS ARRANGED BY YEARS

FRESHMAN YEAR

I. Required Studies. *English* 1. *French* 1 or 2, 3, 4 or *German* 1 or 2. *Mathematics* 3, 1, 2 or *Mathematics* 4, 5; 15, 16.

II. Elective Studies. Two three-hour courses continuous through the year must be chosen from the following list: *Latin* 1, 2, 3; for students presenting elementary and advanced Latin for admission. *Greek* A, B, C; for students not presenting Greek for admission. *Greek* 1, 2, 3; for students presenting elementary and advanced Greek for admission. *French* 1; for students not presenting French for admission. *French* 2, 3, 4; for students presenting elementary French for admission. *French* 5, 6, 7; for students presenting advanced French for admission. *German* 1; for students not presenting German for admission. *German* 2; for students presenting elementary German for admission. *German* 6 or 7, or 23, 24, 25; for students presenting advanced German for admission. *Greek* 33, *Latin* 28, 29 (*Greek and Roman Life*); for all students. *Chemistry* 1, 2, 3; ‡ for all students. *Botany* 1; or *Biology* 1; for all students. *Mechanical Drawing* 2, 3; for all students.

SOPHOMORE YEAR

I. That portion of the required work in modern languages not completed in the Freshman year.

II. Other required and elective courses sufficient with those taken under I to make fifteen hours a week.

JUNIOR YEAR

I. The required History and Physical or Natural Science, if not previously taken.

‡ For admission to Chemistry 4, 5, 6 see page 81.

II. Other required and elective courses sufficient with those taken under I to make fifteen hours a week.

SENIOR YEAR

I. All required courses not previously taken.

II. Elective courses sufficient with those taken under I to make fifteen hours a week.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING

FRESHMAN YEAR

First Term	*Second Term*	*Third Term*
Mathematics 17	Mathematics 18	Mathematics 19
Mech. Drawing 1	Mech. Drawing 1	Mech. Drawing 1
Civil Engineering 1	Civil Engineering 2	Civil Engineering 3
English 1	English 1	English 1
French 2 or German 2	French 3 or German 2	French 4 or German 2

SOPHOMORE YEAR

Mathematics 20	Mathematics 21	Mathematics 21
Civil Engineering 4	Civil Engineering 5	Civil Engineering 6
Physics 1	Physics 2	Physics 3
‡Social Science 1	‡Economics 1	‡Political Science 1
	Civil Engineering 7	§Civil Engineering 8
	Civil Engineering 9	Civil Engineering 10

Also, of the following courses, the subject not presented for admission:

Chemistry 1	Chemistry 2	Chemistry 3
French 1	French 1	French 1
German 1	German 1	German 1

JUNIOR YEAR

Civil Engineering 11	Civil Engineering 12	Civil Engineering 19
Mechanics 1	Mechanics 1	Mechanics 3
Astronomy 4	Astronomy 5	
Physics 24	Physics 24	Physics 24
Elect. Engineering 1	Elect. Engineering 2	Civil Engineering 15
Geology 17	Civil Engineering 14	Geology 16

‡Or some other three-term course, in the Department of English, or History, or Philosophy, chosen with the approval of the head of the Department of Civil Engineering.
§Civil Engineering 8 is taken during the spring recess.

SENIOR YEAR

First Term	*Second Term*	*Third Term*
Civil Engineering 23		Civil Engineering 17
Civil Engineering 25	Civil Engineering 29	Civil Engineering 18
Civil Engineering 26	Civil Engineering 27	Civil Engineering 28
Civil Engineering 35	Civil Engineering 35	Civil Engineering 24
Mech. Engineering 22	Mech. Engineering 22	Civil Engineering 36
Mechanics 2	Mechanics 2	Civil Engineering 32
Civil Engineering 13	Civil Engineering 30	Civil Engineering 34
	Civil Engineering 31	Botany 7

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

FRESHMAN YEAR

First Term	*Second Term*	*Third Term*
Mathematics 17	Mathematics 18	Mathematics 19
Mech. Drawing 1	Mech. Drawing 1	Mech. Drawing 1
Civil Engineering 1	Civil Engineering 2	Civil Engineering 3
English 1	English 1	English 1
French 2 or German 2	French 3 or German 2	French 4 or German 2

SOPHOMORE YEAR

Mathematics 20	Mathematics 21	Mathematics 21
Mech. Drawing 4	Mech. Drawing 5	Mech. Engineering 8
Physics 1	Physics 2	Physics 3
‡ Social Science 1	‡ Economics 1	‡ Political Science 1
	Mech. Engineering 1	Mech. Engineering 3

Also, of the following courses, the subject not presented for admission:

Chemistry 1	Chemistry 2	Chemistry 3
French 1	French 1	French 1
German 1	German 1	German 1

JUNIOR YEAR

Mechanics 1	Mechanics 1	Mechanics 3
Mech. Engineering 4	Mech. Engineering 5	
Mech. Engineering 9	Mech. Engineering 10	Mech. Engineering 11
Physics 24	Physics 24	Physics 24
Elect. Engineering 1	Elect. Engineering 2	Elect. Engineering 3
Elect. Engineering 7	Elect. Engineering 8	Elect. Engineering 9

‡ Or some other course, not technical, chosen with the approval of the head of the Department of Electrical Engineering.

SENIOR YEAR

First Term	*Second Term*	*Third Term*
Mechanics 2	Mechanics 2	
Mathematics 9	Elect. Engineering 11	‡ Physics 19
Elect. Engineering 4	Elect. Engineering 5	Elect. Engineering 6
Physics 23		Physics 23
	Elect. Engineering 12	Elect. Engineering 13
		Civil Engineering 32
Elect. Engineering 14	Elect. Engineering 14	Elect. Engineering 14
Mech. Engineering 16	Mech. Engineering 17	Mech. Engineering 18

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

FRESHMAN YEAR

First Term	*Second Term*	*Third Term*
Mathematics 17	Mathematics 18	Mathematics 19
Mech. Drawing 1	Mech. Drawing 1	Mech. Drawing 1
Civil Engineering 1	Civil Engineering 2	Civil Engineering 3
English 1	English 1	English 1
French 2 or German 2	French 3 or German 2	French 4 or German 2

SOPHOMORE YEAR

Mathematics 20	Mathematics 21	Mathematics 21
Mech. Drawing 4	Mech. Drawing 5	Mech. Engineering 8
Physics 1	Physics 2	Physics 3
§ Social Science 1	§ Economics 1	§ Political Science 1
	Mech. Engineering 1	Mech. Engineering 2

Also, of the following courses, the subject not presented for admission:

Chemistry 1	Chemistry 2	Chemistry 3
French 1	French 1	French 1
German 1	German 1	German 1

JUNIOR YEAR

Mech. Engineering 19	Mech. Engineering 20	Mech. Engineering 21
Mech. Engineering 16	Mech. Engineering 17	Mech. Engineering 18
Mech. Engineering 3	Mech. Engineering 4	
Mech. Engineering 9	Mech. Engineering 10	Mech. Engineering 11
Mechanics 1	Mechanics 1	Mechanics 3
Physics 7	Physics 7	Physics 7

‡ Or an equivalent.

§ Or some other course, in the Department of English, or History, or Philosophy, chosen with the approval of the head of the Department of Mechanical Engineering.

SENIOR YEAR

First Term	*Second Term*	*Third Term*
Mech. Engineering 22	Mech. Engineering 22	
Mech. Engineering 5	Mech. Engineering 6	
Mech. Engineering 12	Mech. Engineering 13	Mech. Engineering 14
Mechanics 2	Mechanics 2	Mech. Engineering 15
Elect. Engineering 1	Elect. Engineering 2	Elect. Engineering 3
Mech. Engineering 23	Mech. Engineering 24	Civil Engineering 32
Mech. Engineering 25	Mech. Engineering 25	Mech. Engineering 25

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

To obtain the degree of Master of Arts, the candidate must complete a course of liberal graduate study of not less than fifteen hours a week for one year. When graduate students pursue courses primarily designed for undergraduates, a higher degree of scholarship than in the case of undergraduates will be required.

Graduates of Brown University who have to their credit work done as undergraduates and not counted towards the bachelor's degree may offer such work in partial fulfilment of the requirements for the degree of Master of Arts, provided such work is in courses which may be taken by graduates and does not lie in more than three departments, and provided the student has completed the work with a grade of C.

Work done in residence for an advanced degree at another institution, and not to be used in fulfilment of the requirements for an advanced degree elsewhere, may, with the approval of the Dean of the Graduate Department, be offered in partial fulfilment of the requirements for the degree of Master of Arts; but the equivalent of at least nine hours' work a week for one year must be done at Brown University.

When any part of the work leading to the degree of Master of Arts is done *in absentia*, the degree will not be conferred until the end of the second full year of study. The degree *in absentia* must be taken within three years after enrolment, unless the period is extended by special action of the Faculty. Candidacy *in absentia* may be terminated at the end of six months if definite evidence of progress has not been submitted. Candidates *in absentia* must register (by correspondence, if necessary) at the beginning of each college year, and make reports to their instructors at the end of each term. A final public examination is required of all candidates *in absentia*. This examination will be held only when notification of the intention to appear for examination is given on or before April 1 of the year in which the candidate desires to receive the degree.

REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE

To obtain the degree of Master of Science, the candidate must complete a course of scientific study satisfactory to the Dean of the Graduate Department and the departments concerned, of not less than fifteen hours of work a week for one year, and must present a thesis in one of the graduate courses which he is pursuing; in place of the thesis a six-hour graduate laboratory course extending through the year may be accepted. All the work must be in one or more of the following subjects: mathematics, engineering, physics, chemistry, astronomy, the biological sciences, psychology, geology, and mineralogy. At least half the work must be in courses designed wholly or primarily for graduates; the remainder may consist of any courses satisfactory to the departments concerned and to the Dean of the Graduate Department.

All the work must be done in residence at Brown University with the exception that work done for the degree of Master of Science at another institution, and not to be used in fulfilment of the requirements for any degree elsewhere, may, with the approval of the Dean of the Graduate Department and the departments concerned, be accepted in partial fulfilment of the requirements for the degree of Master of Science to the extent of not more than six hours of work a week for one year.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

To obtain the degree of Doctor of Philosophy, the candidate must spend at least two years continuously in residence, pursuing a systematic course of advanced study approved by the Graduate Department, the Faculty, and the Board of Fellows, and must pass satisfactory examinations thereon. The candidate must conclude his course with a thesis embodying the results of original research, giving evidence of high scholarship and of special attainments in the studies pursued, and constituting as a whole a definite contribution to knowledge. The candidate is examined publicly before June 1 by a committee consisting in each case of the Graduate Department, together with those members of the Faculty who have directed his work and any other officers of professorial rank in the departments concerned. The examination is held only when notification of the intention to appear for examination is given on or before April 1 of the year in which the candidate desires to obtain his degree. The thesis must be presented to the Faculty, in typewritten copy or print, before May 1 in that year. The approval of this thesis by the Faculty is essential to the attainment of the degree.

Work done in residence for the degree of Doctor of Philosophy at another institution, and not to be used in fulfilment of the requirements for an ad-

vanced degree elsewhere, may, with the approval of the Dean of the Graduate Department, be offered in partial fulfilment of the requirements for the degree of Doctor of Philosophy. One full year of continuous work, consisting of at least one-half of the minimum requirements for the major and one-half of the minimum requirements for the minor, must be spent at Brown University.

For the degree of Doctor of Philosophy at least two subjects are necessary, a major and a minor, not in the same department; the major subject must constitute not less than three-fifths of the candidate's work. The selection of the courses constituting the major and the minor subjects must receive the approval of the head of the department in which the major subject lies, and of the Dean of the Graduate Department. The approval of the head of the department in which the minor subject lies is also necessary for the courses elected in his department.

The candidate must possess a reading knowledge of Latin, German, and French adequate for the purposes of his special studies, unless for sufficient reasons he is excused in respect to one of these languages. To test the candidate's proficiency in this particular, he is examined before December 1 in the last year of his candidacy by a committee consisting of the heads of the departments in which the major and the minor subjects lie, and the heads of the departments of Latin, German, and French.

A year of work for the degree of Master of Arts may be, but is not necessarily, counted as a year of work for the degree of Doctor of Philosophy.

REGULATIONS UNDER WHICH A STUDENT MAY TAKE A FIRST DEGREE IN LESS THAN FOUR YEARS

A candidate for a first degree, who has credit for the required number of hours of work, including all the required subjects, may, at the end of the term in which his work is completed, be excused from further attendance at the University and may receive his degree at the Commencement next following such term.

A candidate for a first degree who has maintained a satisfactory standing in his studies may, subject to the consent of the Committee on Registration and Attendance, take work in addition to the regular number of hours prescribed in the curriculum of the course which he is pursuing.

A candidate for a first degree may receive credit for work done at the summer school of an approved institution of collegiate rank, provided that the work have the approval of the head of the corresponding department in Brown University. The amount of credit given at the institution in question will be given at Brown University, but the total credit for work at summer schools in any one summer shall not exceed fifteen term hours.

A candidate for a first degree may, with the consent of the head of a de-

partment and with the approval of the Faculty, pursue studies connected with that department during any summer in which he does not attend a summer school, and may receive credit for such studies, provided that the work be under the supervision of the head of the department concerned and that the candidate pass an examination in all the work before the end of the following term. The amount of credit will be determined by the head of the department, but the total credit for any one summer shall not exceed nine term hours. No student will be allowed to do summer work in connection with any department of the University until he has presented to the head of the department a registration slip signed by the Registrar.

A student who at the beginning of his Senior year lacks less than forty-five term hours of completing his course may, with the consent of the Committee on Registration and Attendance, distribute his work over the year.

A student who at the beginning of any term lacks less than fifteen term hours of completing his course may, for reasons deemed sufficient by the Committee on Registration and Attendance, be excused from taking more than the necessary number of hours.

For conditions under which graduate work may be pursued during the Senior year, see page 55, under "Admission of Graduate Students."

ATTENDANCE, STANDING, AND EXAMINATIONS

ATTENDANCE. Every student is required to attend every exercise in the several studies to which he is assigned and also the daily Chapel service.

STANDING. A record is kept of the attendance of every student and of his proficiency in his several studies. At the close of each term a report is sent to the parent or guardian of every undergraduate student containing a record of all his absences from required exercises, and indicating his standing in each of his studies for the term and his deficiency in any study or studies, if any deficiency exists. A student who has failed in three or more courses in any term, counting for more than eight hours a week, cannot continue his work without the permission of the Committee on Registration and Attendance. The standing of students is indicated by letters as follows :

H is assigned to those whose work is of such excellence as to merit the designation of honor work.

C is assigned to those who have passed with credit.

P is assigned to those who have passed in the subject, but deserve no higher recognition.

F is assigned to those who have failed to pass, but who, in the opinion of the instructor, should be allowed a second examination.

FF is assigned to those whose work during the term has been so unsatisfactory that, in the opinion of the instructor, they should not be allowed an examination, or to those whose work in the regular examination has been so unsatisfactory that, in the opinion of the instructor, they should not be allowed a second examination, or to those who, in a laboratory course, have not completed half the work required.

I is assigned to those whose work is incomplete, but satisfactory so far as done.

A is assigned to those who were absent from the examination, unless FF has already been assigned.

AA is assigned to those who have been absent one-half the time in a course, or to those whose absence from the term examination is not excused by the Committee on Registration and Attendance.

EXAMINATIONS. Except in laboratory, seminary, and similar work, all classes are examined at the close of each term. A student is not admitted to the examinations unless his term bill has been paid in full. A student is not admitted to the examination in a study in which he has received the mark FF or AA.

Examinations other than the regular term examinations are given only in the

cases of: (1) students who have received the mark F, (2) students who have received the mark A, and (3) candidates for advanced standing.

A student is not admitted to a special examination except on written authorization from the Registrar. If the examination is taken to remove the mark F or A, the student must pay to the Registrar a fee of two dollars. The Registrar does not authorize special examinations for advanced standing or to remove the mark A without the consent of the Committee on Registration and Attendance.

Special examinations upon the work of the first and second terms are given only during the following term on the third Wednesday and succeeding Wednesdays and Saturdays, or in September of the next academic year, on as many days as may be necessary preceding the opening of the term. Special examinations upon the work of the third term are given only on the above-mentioned days in the following September.

Students desiring special examinations in the second or third term must make application to the Registrar not later than the first Saturday of the term, specifying the subjects in which examinations are desired. On or before the second Wednesday of the term, a schedule of all special examinations will be posted. Students desiring special examinations in September must make application to the Registrar not later than August 15, specifying the subjects in which examinations are desired. A schedule of the September examinations is sent to the students concerned about September 1. Special examinations on the work of the third term of the Senior year are arranged at the convenience of the instructor.

Special examinations at times other than those scheduled are allowed only by consent of the Committee on Registration and Attendance.

Special examinations for advanced standing are, so far as possible, arranged at the times assigned for other special examinations.

COURSES OF INSTRUCTION

IN every department the courses that bear a single number must be elected as a whole. When term courses are grouped in one paragraph (e.g. *Astronomy 1, 2, 3*), *the second term may not be taken without the first, nor the third without the second, unless specific statement to the contrary is made. In starred courses a final mark covering the work of the course as a whole is given at the end of the course, the marks given at the end of the preceding term or terms being regarded as temporary. When the time of meeting is not announced, it will be arranged by the instructor at the beginning of the term.*

I. ART‡

WILLIAM CAREY POLAND, A.M., LITT. D., *Professor of the History of Art*

1, 2, 3. *History of Art from Antiquity through the Renaissance*

First term, ancient art; a general course in the history of ancient art, chiefly Greek. Second term, Roman, early Christian, and Medieval art; a study of Roman, Romanesque, and Gothic art, with some notice of Byzantine, Arabian, and Oriental art. Third term, art of the Renaissance; the fifteenth and sixteenth centuries; the effect on art of the dominant motives of the epoch, the development of art in the different countries of Europe, the great masters and their most significant works. Text-book, lectures, lantern views.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Each term may be elected independently. *Mon., Wed., Th., at 10.20.*

4, 5. *Modern Art*

First term, the seventeenth and eighteenth centuries. Second term, the nineteenth century. Text-book, lectures, special assigned topics, lantern views.

Three hours. First and second terms. Elective for Juniors, Seniors, and Graduates, who have credit for 3. *Tu., Th., Sat., at 12.20.*

6. *Theory and Criticism of the Fine Arts*

A study of the more important facts and laws of artistic production. Text-book, special assigned topics, illustrated lectures.

Three hours. Third term. Elective for students who have credit for any course in Art. *Tu., Th., Sat., at 12.20.*

‡ For a statement of the courses in Music given in connection with this department, see page 141.

7. *Seminary in Classical Architecture*

Critical study; reading of Vitruvius in Latin; discussion of the principles followed by the Greek and Roman architects, and of the influence of Vitruvius upon the Renaissance.

Three hours. Second and third terms. Elective for Graduates. Offered only if three or more elect the course. It is advised that applications be made to Professor Poland at an early date.

[8. *Seminary in Greek and Roman Sculpture*]

An archeological course based on Overbeck's *Schriftquellen.*

Three hours. Through the year. Elective for Graduates who read Greek and Latin. Not offered in 1908–9.

9. *Seminary Study of the Acropolis of Athens*

Critical reading, in Greek, of Pausanias's account of the Acropolis of Athens; lectures and illustrations.

Three hours. First term. Elective for Graduates who read Greek and Latin. Offered only if three or more elect the course. It is advised that applications be made to Professor Poland at an early date.

10. *Freehand Drawing*

Training of hand and eye by progressive study of models of machine parts, casts of ornamental forms, and still-life objects.

One hour. Two hours of drawing. Through the year. Elective for all students. Given at the Rhode Island School of Design. *Tu., or Th., or Fri., at 2.20.*

11. *Practical Work in Art*

Six hours of drawing or other practical work. To illustrate the principles of delineation, color, and chiaroscuro, and the principles of design in architecture, sculpture, and painting, as exemplified in the historic forms of art.

Three hours. Through the year. Elective for students who have credit for 10, and who have taken or are taking 1, 2, 3. Given at the Rhode Island School of Design. *Tu., Th., Fri., at 2.20.*

[12. *Seminary in Renaissance Art*]

Critical study of the art of the fifteenth and sixteenth centuries, particularly Italian. A more detailed study of the spiritual conditions, the influences, and the masters, than in 3.

Three hours. Through the year. Elective for Graduates who have credit for 3. Not offered in 1908–9.

II. ASTRONOMY

WINSLOW UPTON, A.M., Sc.D., *Professor of Astronomy*
FREDERICK SLOCUM,† PH.D., *Assistant Professor of Astronomy*

1, 2, 3. *General Course*

Fundamental conceptions of the science; methods of professional study; present state of our knowledge of the heavenly bodies. Young's *Manual of Astronomy.* Designed either for purposes of general culture or as a preparation for technical work. *Professor* UPTON.

Three hours. Through the year. Elective for Juniors and Seniors who have credit for Mathematics 3, 1, 2. *Tu., Th., Fri., at 3.20.* Observations at Ladd Observatory.

4, 5. *Geodetic Astronomy*

Application of astronomy to geodesy; the problems of time, latitude, longitude, and azimuth. Computations and observations. *Professor* UPTON.

Three hours. First and second terms. Required of candidates for the degree of Bachelor of Science in Civil Engineering. Elective for Juniors and Seniors who have credit for Mathematics 3, 1, 2. May be taken at the same time as 1, 2, 3. Followed in the third term by Civil Engineering 15. *Mon., Tu., Th., at 2.20.* Observations at Ladd Observatory.

[7, 8, 9. *Nautical Astronomy*]

Principles of navigation; methods of determining the position of a ship at sea; use of sextant, compass, and chart for determining latitude, longitude, bearings, and courses. *Professor* SLOCUM.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors, who have credit for Mathematics 3, 1, 2. May be taken at the same time as 1, 2, 3. Not elective for students who have taken or are taking 4, 5. Not offered in 1908–9.

10, 11, 12. *Practical Astronomy*

Advanced study of geodetic applications of astronomy; method of least squares. Doolittle's *Practical Astronomy,* with instrumental observations. *Professor* UPTON.

Three hours. Through the year. Elective for Graduates, and for Undergraduates who have shown special aptitude for instrumental observations.

† On leave of absence during the academic year 1908–9.

13, 14, 15. *Special Advanced Work*

Subjects selected to meet the requirements of individual students. *Professors* UPTON *and* SLOCUM.

Three hours. Through the year. Elective for Graduates and approved Undergraduates.

III. BIBLICAL LITERATURE AND HISTORY‡

HENRY THATCHER FOWLER, PH.D., *Professor of Biblical Literature and History*

HENRY ENGLANDER, A.M., *Lecturer in Biblical Literature and History*

LANGUAGES

1. *Elementary Hebrew*

Grammar; exercises in writing Hebrew; translation of parts of Genesis and Deuteronomy. *Professor* FOWLER *and Mr.* ENGLANDER.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates.

2. *Historical Hebrew*

Reading of the books of Samuel and Kings with special attention to the acquisition of a vocabulary; review of the elements of Hebrew grammar and study of syntax. *Professor* FOWLER *and Mr.* ENGLANDER.

Three hours. Through the year. Elective for students who have credit for 1.

3. *Hebrew Literature*

Legal literature. Critical translation of the legal books of the Old Testament and study of the development of Israel's law codes. In succeeding years corresponding courses in the Prophetic, Psalm, and Wisdom literature of the Old Testament will be offered. *Professor* FOWLER.

Three hours. Through the year. Elective for Graduates and approved Undergraduates.

4. *Textual Criticism of the Old Testament*

The principles and method of textual criticism, in connection with the study of one of the shorter prophetical books. *Mr.* ENGLANDER.

Three hours. One term. Offered if applied for by Graduates.

‡ For conditions under which students may receive credit in the Newton Theological Institution for work done in this department, see page 159.

5. *Biblical Aramaic*

Grammar and reading of the Aramaic portions of the Old Testament. *Mr.* ENGLANDER.

Three hours. One term. Offered if applied for by students who have credit for 1.

6. *Elementary Arabic*

Grammar; exercises in writing Arabic; translation of prose selections. *Professor* FOWLER.

Two hours. Through the year. Elective for Seniors and Graduates.

[7, 8, 9. *Gospels and Epistles*]

First term, the Johannine writings. Second term, the Gospel of Mark and the First Epistle of Peter. Third term, the Gospels of Matthew and Luke. First and second terms, *Professor* FOWLER. Third term, *Professor* ALLINSON.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Each term may be elected independently. Not offered in 1908–9.

10, 11, 12. *Acts and Pauline Epistles*

Characteristics of Hellenistic Greek; translation, and investigation of date, authorship, and thought. First term, Acts. Second term, Thessalonians and Galatians. Third term, Corinthians and Romans. If desired by the class, translation from the writings of Justin Martyr may be substituted for the specified reading of the third term. First and second terms, *Professor* FOWLER. Third term, *Professor* ALLINSON.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Each term may be elected independently. *Mon., Tu., Th., at 2.20.*

LITERATURE AND HISTORY IN ENGLISH

13, 17, 18. *Old Testament Literature and History*

First term, early Semitic history, the formative age of Hebrew history, and Hebrew literature before the Monarchy. Second term, history and literature of the Hebrew Monarchy. Third term, Jewish history and literature from the Captivity to the Maccabean Revolt. Includes nearly the entire Old Testament history and literature. In connection with 14, 19, 20, gives a comprehensive view of Biblical history and literature. The Biblical books are read in the best English translations. *Professor* FOWLER.

Three hours. Through the year. Elective for Sophomores, Juniors, Seniors, and Graduates. *Mon., Wed., Th., at 10.20.*

[14, 19, 20. *New Testament Literature and History*]
First term, the Maccabean and Roman ages of Jewish history and literature. Second term, the four Gospels and the life of Christ. Third term, the Acts, Epistles, Apocalypse, and the history of the Apostolic age. Includes a large part of the Jewish writings from the second century B.C. to the fall of Jerusalem, and the entire New Testament history and literature, studied in its Jewish setting. In connection with 13, 17, 18, gives a comprehensive view of Biblical history and literature. The Biblical books are read in the best English translations. *Professor* FOWLER.

Three hours. Through the year. Elective for Sophomores, Juniors, Seniors, and Graduates. Each term may be elected independently. Not offered in 1908–9.

15.* *Biblical Seminary*
Subject for 1908–9: Documentary analysis of the Old Testament historical books. *Professor* FOWLER.

Three hours. Through the year. Elective for Graduates and approved Juniors and Seniors.

16. *Principles of Historical Criticism and Research*
This course is the same as course 25 offered by the Department of History. *Professor* MACDONALD.

One hour. One term. Elective for Graduates of one year's standing. Required of all candidates for the degree of Doctor of Philosophy in Biblical Literature and History.

IV. BIOLOGY

ALBERT DAVIS MEAD, PH.D., *Professor of Biology*
FREDERIC POOLE GORHAM, A.M., *Associate Professor of Biology*
HERBERT EUGENE WALTER, PH.D., *Assistant Professor of Biology*
PHILIP HENRY MITCHELL, PH.D., *Instructor in Physiology*
FRANK·TAYLOR FULTON, SC.B., M.D., *Instructor in Pathology and Histology*
JAY PERKINS, M.D., *Demonstrator in Anatomy*
JOHN BURNHAM FERGUSON, A.B., M.D., *Demonstrator in Anatomy*

1. *Introductory Course*
Introductory to all other courses in the department; also designed for those who, without intending to pursue the subject further, de-

sire a general view of biological work and biological theories. Aims to give an introduction to laboratory methods of dissection and experiment and the use of the microscope, to afford a general view of the structure and functions of animals and plants, and to present an outline of the more important biological theories, such as evolution, natural selection, variation, mutation, and heredity. After the first term Biology 1 and Botany 1 are identical and the classes are combined. *Professor* GORHAM.

Three hours. Six hours of attendance. Through the year. Elective for Undergraduates. *Mon., Tu., Th., 2.20 to 4.20.*

2. *Comparative Anatomy*

Intended not only for the general student, but also for those who are particularly interested in zoology and for those who expect to study medicine. First and second terms: The structure and significance of the various organs of vertebrates with particular reference to man. Third term: A comparative survey of all animals considered in their relationship to each other and to their surroundings, including a study of some important features in the anatomy of invertebrates. Students are permitted to attend clinics and autopsies at the Rhode Island Hospital. Laboratory work, field excursions, and lectures. *Professor* WALTER.

Three hours. Six hours of attendance. Through the year. Elective for Sophomores, Juniors, and Seniors, who have credit for 1.

3. *Bacteriology*

A general discussion of bacteria in all their relations, with special attention in the laboratory to the methods of studying bacteria, including the isolation, systematic study, and determination of unknown species. Lectures and laboratory work. *Professor* GORHAM.

Three hours. Six hours of attendance. Third term. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. *Mon., Wed., Th., at 10.20.*

4, 5. *Advanced Histology and Pathology*

Advanced work in micro-technic and in normal and pathological histology. Adapted, to some extent, to individual requirements. *Professor* MEAD *and Dr.* FULTON.

Three hours. Six hours of attendance. First and second terms. Elective for Juniors, Seniors, and Graduates, who have credit for 1 and 10.

7. *Chemical Physiology*

Designed both for those who are interested in physiology either from a medical or a general standpoint, and also for those who are specializing in chemistry and desire a knowledge of vital chemical processes. Includes: the chemistry of proteins, carbohydrates, and fats; the physiology of the digestive system, with the study of secretions and of artificial salivary, gastric, and pancreatic digestions; examination of blood, bile, and urine; the analysis of foods with special reference to milk. *Dr.* MITCHELL.

Three hours. Six hours of attendance. First and second terms. Must be preceded by Chemistry 1, 2, 3, and should be preceded by Chemistry 10. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. *Tu., Fri., Sat., at 10.20.*

8. *Physical Physiology*

The physiology of muscle and nerve; the physics and physiology of the circulatory, respiratory, and alimentary systems; the causes and theories of sleep; the physiology of the special senses. *Dr.* MITCHELL.

Three hours. Six hours of attendance. Third term. Must be preceded by 7. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. *Tu., Fri., Sat., at 10.20.*

33. *Clinical Analysis*

Aims to furnish practice in methods of analysis used in medical diagnosis. Analysis of urine; examination of blood and of feces; gastric analysis. *Dr.* MITCHELL.

Three hours. Six hours of attendance. Third term. Must be preceded by 7. Elective for Juniors, Seniors, and Graduates, and for Sophomores who are not taking any other course in the department.

9. *Anatomy of the Nervous System*

A study of the architecture and composition of the brain, nerves, and sense organs in man; comparison with the nervous system of lower vertebrates; relation of nervous structure to mental activity. *Professor* MEAD.

Three hours. Six hours of attendance. Through the year. Elective for Juniors and Seniors who have credit for 1.

10. *Embryology and Histology*

The origin and the development of the individual body, the elementary structure of the adult organs. Practice in micro-technic. Adapted

to the requirements of general students and those intending to study medicine. *Professor* MEAD.

Three hours. Six hours of attendance. Through the year. Elective for Juniors and Seniors who have credit for 1.

11. *Biological Theories and Biological Problems*

Seminary course. *Professor* MEAD.

One to three hours. Through the year. Elective for Graduates.

12. *Advanced Bacteriology*

Practical work in the preparation of culture media; methods of sterilization and disinfection; qualitative and quantitative biological examination of water, milk, air, soil, and sewage; study of certain pathogenic organisms, with the determination of their pathogenic properties, and the methods of bacteriological diagnosis of disease. Laboratory work and seminary. *Professor* GORHAM.

Three to twelve hours. Through the year. Elective for Juniors, Seniors, and Graduates who have credit for 3.

13. *Physiology, advanced course*

Laboratory work and seminary. *Dr.* MITCHELL.

Three to twelve hours. Through the year. Elective for Graduates who have sufficient knowledge of chemistry and physiology.

14. *Human Anatomy*

Laboratory instruction. A course in practical dissection. Students also have an opportunity to attend certain operations at the hospital and to be present at autopsies. *Dr.* PERKINS *and Dr.* FERGUSON.

Three hours. Through the year. Elective for Graduates.

15. *Special Advanced Work*

Research work arranged to meet the requirements of individual students. *Professor* MEAD.

Three to twelve hours. Through the year. Elective for Graduates.

[16. *Evolution*]

The history of biology, principles of classification, geographical distribution, heredity, natural selection, variation, Mendelism, and the relationship of man to the lower animals. Lectures and assigned reading. *Professor* MEAD.

Three hours. Third term. Elective for Juniors and Seniors. Not offered in 1908–9. To be offered in 1909–10.

17. *Physiology*

A general survey of the activities of living organisms with special reference to the human body, including some applications of modern physiology to healthful living. Lectures and assigned reading. *Dr.* MITCHELL.

Three hours. Third term. Elective for Juniors and Seniors. *Mon., Tu., Th., at 8.* Not to be offered in 1909–10.

18. *Ornithology*

A study of birds regarded as a group of living animals in relation to their environment. Lectures and field identification of wild birds during their spring migration. *Professor* WALTER.

One hour. Two hours of attendance. Third term. Elective for Undergraduates.

19. *Entomology*

A study of insects in their scientific and economic relations. Lectures and laboratory work. *Professor* GORHAM.

One hour. Two hours of attendance. First term. Elective for Undergraduates.

30. *Protozoology*

A consideration of the forms and activities of micro-organisms and their relation to disease. Lectures and laboratory work. *Professors* GORHAM *and* WALTER.

One hour. Two hours of attendance. Second Term. Elective for Undergraduates.

31. *Bacteriological Research*

Research work arranged to meet the requirements of individual students. *Professor* GORHAM.

Three to twelve hours. Through the year. Elective for Graduates who have credit for 3 and 12.

32. *Zoological Seminary*

Reading and discussion of German zoological literature selected with reference to the needs of individual students. *Professor* WALTER.

One to three hours. Through the year. Elective for Graduates.

V. BOTANY‡

JAMES FRANKLIN COLLINS, PH.B., *Assistant Professor of Botany*

1. *Introductory Course*

Introductory to other courses in the department; also designed for those who, without intending to pursue the subject further, desire a general view of biological work and biological theories. Aims to give an introduction to laboratory methods of dissection and experiment and the use of the microscope, to afford a general view of the structure and functions of plants and animals, and to present an outline of the more important biological theories, such as evolution, natural selection, variation, mutation, and heredity. After the first term Botany 1 and Biology 1 are identical and the classes are combined.

Three hours. Six hours of attendance. Through the year. Elective for Undergraduates. *Mon., Tu., Th., 2.20 to 4.20.*

[*2.* Histology and Physiology*]

Minute structure and special functions of plants, and their tissues; embryology; cytology; glycerin and paraffin technic, etc. The work of the third term can be arranged to meet the special needs of students intending to take up either medicine or forestry. Certain portions of this course may, with the approval of the instructor, be continued by Juniors, Seniors, and Graduates, in course 6.

Three hours. Six hours of attendance. Through the year. Elective for Sophomores, Juniors, and Seniors, who have credit for 1, and for approved Graduates. Not offered in 1908–9. To be offered in 1909–10. Alternates with 3, 4, 5.

3, 4, 5. Comparative Morphology

Intended to give a general view of the evolution and classification of plants by a comparative study of the life-histories of certain types. First term, algae and fungi. Second term, mosses, ferns, etc. Third term, seed plants. Certain portions of this course may, with the approval of the instructor, be continued by Juniors, Seniors, and Graduates, in course 6.

Three hours. Six hours of attendance. Through the year. Elective for Sophomores, Juniors, and Seniors, who have credit for 1, and for approved Graduates. Not to be offered in 1909–10. Alternates with 2. *Mon., Wed., Fri., at 12.20.*

‡ Students intending to teach or to apply for positions in the government or state experiment station service are advised to supplement courses 1, 2 and 3, 4, 5 with advanced or special work in course 6.

6.* *Special Course*

Arranged to meet the requirements of individual students. May be taken in successive years if previous work is not duplicated. Students electing this course must plan it definitely, in consultation with the instructor, before June 1 of the preceding academic year. Advanced, special, or research work upon almost any phase of botany may be chosen by students who are properly qualified.

One to three hours. Through the year. Elective for Graduates and for approved Juniors and Seniors. Graduates may, with the consent of the instructor, elect the course for more than three hours. Two to six hours of attendance for approved Juniors and Seniors.

7. *Trees*

Identification of native and introduced trees; characteristic structure of the more common kinds of wood. Lectures and field work. The required field trips will take place in the afternoon unless otherwise specially arranged, the number depending somewhat upon the length of the individual trips and the amount of work accomplished.

One hour. Two hours of attendance. Third term. Required in the Senior year for the degree of Bachelor of Science in Civil Engineering. Elective for other Undergraduates. Lectures, *Wed. at 8.*

VI. CHEMISTRY

John Howard Appleton, A.M., Sc.D., *Newport-Rogers Professor of Chemistry*

John Emery Bucher, Ph.D., *Associate Professor of Organic Chemistry*

Frederick George Keyes, Sc.M., *Instructor in Chemistry*

Samuel Jacob Beeber, A.B., *Assistant in Chemistry*

1, 2, 3. *Descriptive Chemistry*‡

Non-metals; metals, their metallurgy, compounds, and practical applications; theoretical chemistry. Lectures with experiments; writ-

‡ Credit for the entrance requirement in Chemistry admits only to 1, 2, 3, which may be taken also without previous preparation. Students who wish to enter more advanced courses without taking 1, 2, 3, must pass a special test at the time of the entrance examination in Chemistry. This test will cover the following topics: 1. All of the non-metals with their principal compounds and the processes of manufacture of the chief commercial products from non-metals. 2. About thirty important metals, their occurrence, preparation from the ore, the preparation and uses of their chief compounds. 3. The general principles of chemical action which depend upon physical laws. 4. Methods of making chemical computations of moderate difficulty.

Preparation for this test may require the equivalent of six hours a week for one school year.

ten exercises; individual laboratory work. *Professor* BUCHER, *Messrs.* KEYES, BEEBER, *and* WEED.

Three hours. Through the year. Elective for Undergraduates. *1st div. Mon., Th., at 10.20; 2d div. Tu., Fri., at 10.20; 3d div. Wed., Sat., at 11.20.* Laboratory hours to be arranged with the instructor.

4, 5. *Qualitative Analysis*

First term, properties of the metallic elements; their separation from certain of their compounds. Laboratory work; recitations in qualitative analysis and in chemical philosophy; exercises in stoichiometry. Second term, the principal non-metals and the acids formed by them; methods of separation and recognition of acids and acid radicles. *Professor* APPLETON *and Mr.* GAGER.

Three hours. Six hours of attendance. First and second terms. Elective for Juniors who have credit for 1, 2, 3.‡ *1st div. Fri. at 11.20; 2d div. Sat. at 10.20.* Laboratory hours to be arranged with the instructor.

6. *Quantitative Analysis*

Quantitative precipitations and separations of the most important elements and compounds; the principles upon which quantitative apparatus is constructed; chemical philosophy and stoichiometry continued. Chiefly laboratory work. *Professor* APPLETON *and Mr.* GAGER.

Three hours. Six hours of attendance. Third term. Elective for Juniors who have credit for 4, 5. *1st div. Fri. at 11.20; 2d div. Sat. at 10.20.* Laboratory hours to be arranged with the instructor.

7, 8, 9. *Quantitative Analysis, advanced course*

Assaying of metallic ores; analysis of agricultural materials; testing of chemicals used in textile establishments, etc. *Professor* APPLETON *and Mr.* GAGER.

Six hours. Twelve hours of attendance. Through the year. Elective for Seniors and Graduates who have credit for 6. Laboratory hours to be arranged with the instructor.

10, 11, 12. *Organic Chemistry*

Preparation and analysis of representative organic compounds. Lectures, recitations, and laboratory work. *Professor* BUCHER *and Mr.* KEYES.

Six hours. Through the year. First and second terms, three lectures a week and three laboratory periods a week. Elective for approved Juniors, Seniors, and Graduates. *Mon., Th., Fri., at 9.20.*

‡ See footnote, page 81.

13. *Assaying*

Professor APPLETON *and Mr.* GAGER.

Six hours. Twelve hours of attendance. Third term. Elective for Seniors and Graduates who have credit for 1–6.

14. *Organic Dyes*

The chemistry and use of mordants, dyes, etc. *Professor* APPLETON *and Mr.* GAGER.

Six hours. Twelve hours of attendance. Third term. Elective for approved Seniors and Graduates.

15, 16, 17. *Industrial Chemistry*

Lectures and laboratory work. *Professor* APPLETON.

Three to six hours. Six to twelve hours of attendance. Through the year. Elective for approved Graduates. Each term may be elected independently.

18, 19, 20. *Physical Chemistry*

Lectures and laboratory work. *Professor* BUCHER.

Three hours. Through the year. Elective for approved Juniors, Seniors, and Graduates.

[21, 22. *Organic Chemistry, advanced course*]

Professor BUCHER.

Three hours. First and second terms. Elective for approved Graduates. Not offered in 1908–9.

[23. *Inorganic Chemistry, advanced course*]

Professor BUCHER.

Three hours. Third term. Elective for approved Juniors, Seniors, and Graduates. Not offered in 1908–9.

24, 25, 26. *Organic Preparations, advanced course*

Professor BUCHER.

Three hours. Through the year. Elective for approved Juniors, Seniors, and Graduates.

27, 28, 29. *Inorganic Preparations, advanced course*

Professor BUCHER.

Three hours. Through the year. Elective for approved Juniors, Seniors, and Graduates, who have credit for 10, 11, 12.

30, 31, 32. *Research Work in Chemistry*

Professor BUCHER.

Three hours, or more. Through the year. Elective for Graduates.

33, 34, 35. *Conference on Special Topics in Chemistry*

Professor BUCHER.

One hour. Through the year. Elective for approved students.

36, 37, 38. *Conference on Special Topics in Chemistry*

Professor APPLETON.

One hour. Through the year. Elective for approved students.

VII. CIVIL ENGINEERING ‡

JOHN EDWARD HILL, C.E.M., Sc.D., *Professor of Civil Engineering*

ARTHUR HORACE BLANCHARD, C.E., A.M., *Associate Professor of Civil Engineering*

HENRY BERNARDIN DROWNE, C.E., *Instructor in Civil Engineering*

1, 2, 3. *Lettering*

Practice in simple lettering as a preparation for work in the drafting room. *Professor* HILL.

One hour. Two hours of drafting. Through the year. Not elective. *1st div. Tu. 2.20 to 4.20; 2d div. Fri. 2.20 to 4.20.* Second term, *3d div. Wed. 2.20 to 4.20.*

4, 5, 6. *Surveying, elementary course*

Theory and practice of plane surveying; use of tape, compass, level, and transit; adjustment of instruments. Lectures, recitations, field work, and drafting. *Professors* HILL *and* BLANCHARD, *Mr.* DROWNE.

Three hours. One hour of recitation first and third terms, and usually six hours of field work or drafting. Through the year. Elective for students who have credit for Mathematics 3, 1, 2, and for Mechanical Drawing 1 or 2. First and third terms, *Tu. at 11.20; Mon., Th., 2 to 5.* Second term, *Mon., Th., 2 to 5.*

7. *Topographical Drawing*

Pen and colored topography; contour drawing, conventional signs for structural materials. *Mr.* DROWNE.

‡ All the courses in this department except 16 are required of candidates for the degree of Bachelor of Science in Civil Engineering; all except 1, 2, 3 and 32 and 35 are elective for other students.

Three hours. Six hours of drafting. Second term. Elective for Juniors and Seniors who have credit for Mechanical Drawing 1 or 2. *Wed., Fri., 2 to 5.*

8, 9. *Surveying, advanced course*

Topography; city surveying; use of stadia, plane table, sextant, and barometer; precise base-line measurements with steel tape. Methods as in 4, 5, 6. *Professors* HILL *and* BLANCHARD, *Mr.* DROWNE.

Three hours and one hour. Second term. Course 8 is taken during the spring recess. Elective for students who have credit for 4. *Tu. at 11.20.*

10, 11, 12, 13. *Railroad Engineering*

Theory, location, construction, and economics of railroad engineering. Lectures, recitations, field work, and drafting. Third term, railroad curves and practical problems. First term, actual location of a line about two miles long, map, and estimate of cost. Second term, railroad track and track work, ties, ballast, rails, frogs, switches, etc.; maintenance of way department; methods of work. First term, earthwork and its cost; rock excavation; tunneling; economics of location. *Professor* HILL *and Mr.* DROWNE.

Three, four (eight hours of field work), three, and three hours. Third, first, second, and first terms. Elective for students who have credit for 6 and 9. Third term, *Mon., Th., Sat., at 8.* First term, *Wed. 8 to 5.* Second term, *Tu., Wed., Sat., at 9.20.* First term, *Mon., Th., at 10.20; Sat. 9.20 to 11.20.*

14. *Hydraulic Engineering* ‡

Consideration of water supply mainly from a sanitary standpoint. A general course designed to give the chemical and biological aspects of water supply without laboratory work. Lectures, recitations, and seminary work. *Professor* HILL.

Three hours. Second term. Elective for Juniors and Seniors. *Tu., Fri., Sat., at 10.20.*

15. *Geodesy*

Problems in geodetic surveying, with sufficient theory for a proper understanding of the formulae used. Lectures and computations. *Professor* HILL.

Three hours. One hour of recitation and five hours of computation. Third term. Elective for students who have credit for 6 and 9, and Astronomy 5. *Th., Sat., at 10.20; Th. 1.20 to 5.20.*

‡ Courses 14, 17, and 18 cover the general subject of sanitation.

16. *Municipal Improvements*

Economic and social aspects of sewerage, water works, pavements, etc. *Professor* Hill.

Three hours. First term. Elective for Juniors and Seniors. Offered only if ten or more elect the course. *Mon., Th., Fri., at 9.20.*

17. *Hydraulic Engineering* ‡

Supplements Mechanics 2, which gives the theoretical treatment of the subject. Consideration of water supply mainly from an engineering standpoint. Irrigation, pumps, and pumping machinery; construction of dams and reservoirs. Lectures, recitations, and seminary work. *Professor* Hill.

Four hours. Third term. Elective for students who have credit for Mechanics 2. *Mon., Wed., Fri., Sat., at 9.20.*

18. *Sanitary Engineering* ‡

Sewerage and house drainage; theory of sewerage, with occasional problems in design; treatment and disposal of sewage; stream pollution; appliances used in construction and maintenance; amount and velocity of flow; house drainage and its appliances; garbage collection and disposal. Lectures, recitations, and seminary work. *Professor* Hill.

Four hours. Third term. Elective for students who have credit for Mechanics 2. *Mon., Wed., Th., Fri., at 11.20.*

19. *Highway Engineering*

Economics and location of country roads; surveys, grades, drainage, and foundations; construction and maintenance of roads of earth, gravel, and broken stone; economics and design of street pavements of asphalt, brick, bitulithic, cobble-stone, stone-block, and wood-block; methods of testing road materials; roads and pavements in foreign countries. Lectures, recitations, inspection trips, and seminary work. *Professor* Blanchard.

Three hours. Third term. Elective for Sophomores, Juniors, and Seniors. *Mon., Tu., Th., at 8.*

23. *Simple Framed Structures*

The standard forms of simple roof trusses; calculation by analytical methods of stresses due to dead, snow, and wind loads; calculation

‡ Courses 14, 17, and 18 cover the general subject of sanitation.

by analytical methods of stresses in Pratt, Howe, Warren, and parabolic trusses due to dead, wind, uniform live, excess panel live, road roller, and locomotive wheel loads; miscellaneous trusses, skew bridges, influence lines, cranes, trussed bents, and towers. Lectures, recitations, and seminary work. *Professor* BLANCHARD.

Three hours. First term. Elective for students who have credit for Mechanics 1. *Mon., Tu., Th., at 9.20.*

24. *Higher Framed Structures*

General analysis of continuous, movable, cantilever, and suspension bridges and three-hinged, two-hinged, and fixed-end arched ribs; calculations of stresses in continuous and non-continuous center-bearing swing bridges; theorem of three moments; deflection of framed structures; theorem of least work. Lectures, recitations, and seminary work. *Professor* BLANCHARD.

One hour. Third term. Elective for students who have credit for 23. *Th. at 10.20.*

25. *Structural Details*

Riveted joints, roof details, tension members, combined direct and bending stresses, secondary stresses, columns under direct and eccentric loading; details of wooden structures; plate girder, pin-connected, and riveted Pratt truss railroad bridges; construction of viaducts and elevated railroads; steel mill-building and high-building construction; comparison of standard structural specifications. Lectures, recitations, and computations. *Professor* BLANCHARD.

Three hours. First term. Elective for students who have credit for Mechanics 1. *Mon., Tu., Th., at 8.*

26. *Roof Design and Graphic Statics*

Graphic determination of center of gravity and moment of inertia of combinations of structural shapes; determination by graphical methods of moments in beams and stresses in simple roof trusses; determination of shears, moments, and stresses in simply supported bridge trusses by the use of influence lines; complete design, with shop drawings, of a fifty to seventy foot roof truss; revision and discussion of checked drawings; drawing and computations; inspection trips. *Mr.* DROWNE.

Three hours. One hour of recitation and four hours of drafting. First term. Elective for students who have taken Mechanical Drawing 1 or 2, and have taken or are taking 23 and 25. *Tu. 10.20 to 12.20 and 1.20 to 5.20; Wed. 2 to 5.*

27, 28. *Bridge Design*

Determination of stresses in plate girder and trussed bridges by the use of moment and shear diagrams; detail design, with shop drawings, of a plate girder highway bridge; detail design, with shop drawings, of a Pratt truss railroad bridge. Lectures on American and English shop practice; the esthetic design of bridges, design of standpipes and elevated tanks, and American methods of erection of bridges and structures. Lectures, drawing, computations, inspection trips, and seminary work. *Professor* BLANCHARD *and Mr.* DROWNE.

Three hours. Six hours of drafting. Second and third terms. Elective for students who have taken 23, 25, 26. Second term, *Tu., Th., 1.20 to 4.20.* Third term, *Tu. 10.20 to 12.20 and 1.20 to 5.20.*

29. *Reinforced Concrete Structures*

Properties of reinforced concrete; theory and design of reinforced concrete arches in accordance with the elastic theory; theory and design of reinforced concrete beams, retaining walls, dams, foundations, bridges, and culverts; systems of reinforcement; methods of construction; complete design, with shop drawings, of a fifty-foot reinforced concrete highway arch bridge; complete design of a reinforced concrete retaining wall. Lectures, recitations, drafting, and computations. *Professor* BLANCHARD.

Five hours. Three hours of recitation and four hours of drafting. Second term. Elective for students who have credit for Mechanics 1 and Mechanical Drawing 1 or 2. *Mon. 9.20; Tu., Th., 9.20 to 12.20.*

30. *Masonry Structures*

Stone masonry; static and elastic theory of the masonry arch; design of a stone arch; theory and design of masonry piers, retaining walls, bridge abutments, and earth and high masonry dams; complete design, with drawings, of a high masonry dam. Lectures, recitations, drafting, and computations. *Professor* BLANCHARD.

Two hours. One hour of recitation and two hours of drafting. Second term. Elective for students who have credit for Mechanics 1 and Mechanical Drawing 1 or 2. *Mon. at 8; Mon. 10.20 to 12.20.*

31. *Foundations*

Soundings and borings, foundation-beds, deposition of concrete under water, timber foundations, coffer dams, open caissons, Cushing cylinder piers, pile formulae, driving and foundations, pneumatic

caissons of wood and steel, open dredging, the Poetsch freezing process, foundations in quicksand, foundations for high buildings. Lectures, recitations, and seminary work. *Professor* BLANCHARD.

Two hours. Second term. Elective for students who have credit for Mechanics 1. *Tu., Th., at 8.*

32. *Engineering Jurisprudence*

Essential elements of a contract, the parties to a contract, considerations, bids and bidders, work for private parties and public work. Employment of engineers, liability of the engineer as a professional man; when his functions are judicial; when he is a public officer. Real property, water rights, ownership, rights of way, boundaries, incorporeal rights, and franchises. Engineering specifications and accompanying documents. Lectures and discussion of written decisions on typical cases assigned each week. *Professor* BLANCHARD.

Two hours. Third term. Required of candidates for the degree of Bachelor of Science. *Tu., Th., at 9.20.*

34. *Design of Sanitary Works*

Practical applications of the principles of design discussed in courses 17 and 18. Partial design of a sewerage system, water-works system, and filter plant. *Professor* HILL.

One hour. Two hours of drafting and computations. Third term. Elective for students who have taken or are taking 17 and 18 and have credit for Mechanical Drawing 1 or 2. *Mon. 2.20 to 4.20.*

35. *Thesis*

A thesis is required of all candidates for the degree of Bachelor of Science in Civil Engineering. The thesis must embody either a design or a review of an engineering plant, appliance, process, or structure, or the results of an experimental investigation.

36. *Hydraulic Surveying*

Methods of surveying applicable to river and harbor work. Methods of measuring and rating the flow of streams. Actual measurement of the discharge of a stream by means of the current meter, weir, and floats. Recitations and field work. *Mr.* DROWNE.

Two hours. One hour of recitation and two hours of field work. Third term. Elective for students who have credit for 4 and 6 and Mechanics 2. *Mon. at 8; Tu. 8 to 5.20.*

VIII. ECONOMICS‡

HENRY BRAYTON GARDNER, PH.D., *Professor of Political Economy*
WILLIAM KIRK, PH.D., *Assistant Professor of Political Economy*

1. *Economics, elementary*

Affords a general outline of the subject, and serves as an introduction to the more extended and special courses which follow. *Professor* GARDNER.

Three hours. Second term. Sophomore, Junior, or Senior year. Must be preceded by Social Science 1. Required of candidates for the degree of Bachelor of Arts; elective for other students who have credit for Social Science 1. *1st div. Tu., Fri., Sat., at 10.20; 2d div. Mon., Wed., Fri., at 12.20.*

2.* *General Economics*

The development and significance of the more important elements in the existing industrial organization; the principles governing the production, exchange, distribution, and consumption of wealth; the more important practical problems of economic life. First and third terms, *Professor* GARDNER. Second term, *Professor* KIRK.

Three hours. Through the year. Elective for Juniors and Seniors. *Tu., Fri., Sat., at 10.20.*

[3. *Money and Banking*]

Principles of money and banking; recent monetary and banking history, particularly of the United States; monetary and banking systems of leading industrial nations; present monetary and banking problems. *Professor* GARDNER.

Three hours. First and second terms. Elective for Juniors, Seniors, and Graduates. Not offered in 1908–9. To be offered in 1909–10.

4. *Public Finance*

First term, general principles of public finance; revenues and expenditures of leading industrial nations. Second term, financial history of the United States. Third term, local finance: revenues, expenditures, and financial systems of American states and cities. *Professor* GARDNER.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Not to be offered in 1909–10. *Wed., Fri., Sat., at 11.20.*

‡ The courses in this department other than 1 are open only to those students who have credit for Social Science 1, Economics 1, and Political Science 1, which together constitute an introduction to the advanced work of the departments of Social and Political Science and Economics.

5. *History and Present Tendencies of Economics*

Early economic theories: a critical examination of the theories of the early schools of economists, especially the physiocrats and the early English school, with particular attention to the relation between economic thought and economic life and practice. Recent economic theories: a study of the tendencies of the historical school, the Austrian school, and recent English and American writers. The growth of the principle of monopoly, its influence on the production and distribution of wealth and on the economic well-being of society. *Professors* GARDNER *and* KIRK.

Three hours. One session of an hour and a half weekly. Through the year. Elective for Seniors and Graduates who have credit for 2. Hours to be arranged with the instructor.

6. *The Labor Movement*

History and analysis of the trade-union movement; growth of collective bargaining; labor problems in the United States. *Professor* KIRK.

Three hours. First term. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 11.20.*

7. *Socialism*

A brief review of the historically important socialistic schemes; mainly a study of the modern scientific socialism of Karl Marx and of the resulting socialistic movements. *Professor* KIRK.

Three hours. Second term. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 11.20.*

[8. *Industrial Corporations*]

Development of the corporate form of business organization; its effects; the problems to which it gives rise. Special emphasis on the recent movements toward combination, and toward state control of corporations, particularly quasi-public corporations. *Professor* GARDNER.

Three hours. Third term. Elective for Juniors, Seniors, and Graduates. Not offered in 1908–9. To be offered in 1909–10.

9. *The Tariff*

The arguments for free trade and protection in relation to the principles of international trade; the history of tariff legislation and its effects in the United States. *Professor* KIRK.

Three hours. Third term. Elective for Juniors, Seniors, and Graduates. Not to be offered in 1909–10. *Mon., Tu., Th., at 11.20.*

10, 11, 12. *Industrial History*

First term, the chief stages in the development of the industrial life of England, with special emphasis on the origin and development of the existing form of industrial organization. Second term, the more important aspects of the industrial development of the colonies and the United States to 1860. Third term, the growth, organization, and geographical distribution of the main branches of industry since 1860; the relation of the industrial life of the United States to that of the world at large. *Professor* GARDNER.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Each term may be elected independently. *Tu., Th., Sat., at 12.20.*

13. *Physical and Commercial Geography*

A study of the physical features of the land; of climate, winds, ocean currents; of the geographical distribution of food-stuffs and raw materials of industry; and of the consequent development of commerce and of civilization in its economic aspects. Lectures and laboratory work. This course is the same as Geology 12. *Professors* BROWN *and* KIRK.

Three hours. Through the year. Elective for Juniors and Seniors. *Wed., Th., at 10.20; Fri. 2.20 to 4.20.*

20, 21, 22. *Investigation of Special Topics*

Intended to train the student in methods of gathering, handling, and presenting data in the study of economic life and problems. Laboratory methods. *Professors* GARDNER *and* KIRK.

Three hours. Six hours of attendance. Through the year. Elective for approved Juniors, Seniors, and Graduates. Each term may be elected independently. Students desiring to elect these courses must obtain the consent of Professor Gardner or Professor Kirk before the close of the academic year preceding that in which the course is to be taken.

IX. ENGLISH ‡

Walter Cochrane Bronson,† A.M., Litt.D., *Professor of English Literature*

Lindsay Todd Damon, A.B., *Professor of Rhetoric*

Albert Knight Potter, A.M., *Associate Professor of the English Language*

George Wyllys Benedict, Ph.D., *Associate Professor of English*

Thomas Crosby, A.M., *Assistant Professor of English and Public Speaking*

Henry Barrett Huntington, A.B., *Assistant Professor of English*

Howard Bristol Grose, Jr., Ph.B., *Instructor in English*

William Thomson Hastings, A.M., *Instructor in English*

George Rupert MacMinn, A.B., *Instructor in English*

Stanley Bates Harkness, A.B., *Instructor in English*

Harvey McLeod Kelley, A.B., *Assistant in Public Speaking*

Harry Wolcott Robbins, A.M., *Assistant in English*

John Courtland Knowles, Ph.B., *Assistant in English*

1. *Rhetoric and Composition*

Lectures and recitations upon the principles governing prose style, with special emphasis upon usage; prescribed reading and themes. Designed to give the student a clear and correct style and some critical standards. *Professors* Damon *and* Benedict, *Messrs.* Grose, Hastings, MacMinn, Harkness, Robbins, *and* Knowles.

Three hours. Through the year. Required of all Freshmen. *1st, 2d, 3d, and 4th div. Mon., Tu., Th., at 11.20; 5th, 6th, 7th, and 9th div. Mon., Wed., Fri., at 12.20; 8th and 10th div. Tu., Th., Fri., at 3.20.*

2.* *English Composition, second course*

Lectures, recitations, and prescribed reading; weekly themes and other written exercises. Intended to supplement the training given in 1, and to develop further the power of exact and lucid statement. *Mr.* Hastings.

Three hours. Through the year. Elective for Sophomores. *Mon., Wed., Th., at 10.20.*

‡ Credit for English 1 is a prerequisite for admission to all other courses in English. The requirement in English Literature for the degree of Bachelor of Arts may be satisfied by taking any one of the courses from 10 to 23 inclusive.

† On leave of absence during the academic year 1908–9.

[*3.* English Composition, advanced course*]

Frequent practice in composition and criticism. Intended to develop ease of style and clarity and vigor of thought. *Professor* DAMON.

Three hours. Through the year. Elective for Juniors and Seniors, and for Sophomores who have attained the grade of C in 1. With the consent of the instructor the course may be repeated. Not offered in 1908–9. To be offered in 1909–10. Alternates with 4.

4. *Argumentative Composition*

Lectures on the principles and forms of argumentative composition; frequent practice in brief-drawing and the writing of forensics and less formal arguments. Intended to develop the power of handling argumentative topics cogently and persuasively. *Professor* HUNTINGTON.

Three hours. Through the year. Elective for Juniors and Seniors. *Mon., Wed., Th., at 10.20.* Not to be offered in 1909–10. Alternates with 3.

5. *Argumentative Composition*

The principles and forms of brief-drawing and forensic writing. Lectures, written exercises, briefs, and forensics. Intended to furnish a more rapid training than 4, for students who wish to begin debate as early as possible or to go quickly over the fundamentals of argumentative composition. *Professor* HUNTINGTON.

Three hours. Two hours of attendance. First term. Elective for Juniors and Seniors. Not elective for students who have taken 4. *Mon., Fri., at 3.20.*

6.* *Debate*

Intended to train students in correct and vigorous oral presentation of ideas. *Professor* HUNTINGTON, *with the coöperation of the Professors of Economics, Social and Political Science, History, and Public Speaking.*

Three hours. Second and third terms. Elective for a limited number of Juniors and Seniors who have credit for 5 or for one or more terms of 4. With the consent of the instructor the course may be repeated. *Mon., Fri., 3.20 to 5.20.*

7.* *Public Speaking*

Principles of voice culture; vocal interpretation of literature; extempore speaking. *Professor* CROSBY.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *1st div. Tu., Wed., Sat., at 9.20; 2d div. Wed., Fri., Sat., at 11.20.*

8. *Public Speaking, advanced course*

Practice in reading lyric, narrative, and dramatic literature, in extempore speaking, and in the composition and delivery of the common forms of the occasional address. Special attention to securing right tone-production and to improvement in speech. *Professor* CROSBY.

Three hours. Through the year. Elective for a limited number of Juniors and Seniors who have credit for 7. *Tu. at 12.20*, and a two-hour session to be arranged. Not to be offered in 1909–10.

9. *Old English*

Essentials of Anglo-Saxon grammar; prose selections; Béowulf. *Professor* POTTER.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 3.20.*

10. *Chaucer*

Careful reading of most of Chaucer's works; study of Middle English grammar, with some attention to the development of Modern English. *Professor* BENEDICT.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 4.20.*

11. *English Literature from the Beginning to the Present Time*

An outline course in the history of English literature, with reading and study of the greater writers. *Professor* DAMON, *assisted by Messrs.* MACMINN *and* HARKNESS.

Three hours. Through the year. Elective for Sophomores. *Tu., Th., Sat., at 12.20.*

[12. *English Literature exclusive of the Drama, from 1400 to 1600*]

Medieval literary forms and the transition to the modern period: romance, ballad, allegory, satire, Elizabethan novels and lyrics. *Professor* BENEDICT.

Three hours. Through the year. Elective for students who have credit for 10 and one other of the courses from 9 to 23 inclusive. Not offered in 1908–9.

13. *History of the Drama in England*

The drama as a literary type and its history in England to 1642. *Professor* POTTER.

Three hours. Through the year. Elective for students who have credit for any one of the courses from 10 to 23 inclusive. Not to be offered in 1909–10. *Mon., Wed., Fri., at 12.20.*

[18. *The English Drama*]

The history of the English drama from Marlowe to the present time, with reading and study of the greater playwrights. *Mr.* Grose.

Three hours. Through the year. Elective for Juniors and Seniors. Not offered in 1908–9.

[14. *Shakspere*]

Careful study of a few plays with special attention to exact interpretation. *Professor* Potter.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. Not offered in 1908–9.

15. *Shakspere*

Shakspere as dramatist and poet; reading of all the plays. *Professor* Potter.

Three hours. Through the year. Elective for Juniors and Seniors. *Tu., Th., Sat., at 12.20.*

[16. *English Literature exclusive of the Drama, from 1600 to 1660*]

The decline of the Elizabethan spirit; Puritanism and Anglicanism in literature; the "metaphysical" and mystical poets; the cavalier lyrists; all the English poems and some of the prose works of Milton. *Professor* Bronson.

Three hours. Through the year. Elective for students who have credit for any one of the courses from 10 to 23 inclusive. Not offered in 1908–9.

17. *English Literature from 1660 to 1798*

The Restoration drama; the classical school; development of the essay and the novel; the beginnings of romanticism. *Professor* Huntington.

Three hours. Two meetings a week, and a third meeting at the pleasure of the instructor. Through the year. Elective for students who have credit for any one of the courses from 10 to 23 inclusive. Not to be offered in 1909–10. *Mon., Tu., Th., at 11.20.*

19. *English Literature from 1798 to 1832*

The romantic revolt in its critical and imaginative phases; influence

of the French revolution; individualism in form and spirit. *Professor* Benedict.

Three hours. Two meetings a week, and a third meeting at the pleasure of the instructor. Through the year. Elective for Sophomores, Juniors, and Seniors. *Tu., Fri., Sat., at 10.20.*

20. *English Literature from 1832 to 1892*

The Victorian period; modifications of romanticism in prose and poetry; realism; the influence of science and democracy; tendencies at the end of the century. *Mr.* Grose.

Three hours. Two meetings a week, and a third meeting at the pleasure of the instructor. Through the year. Elective for Sophomores, Juniors, and Seniors. *Wed., Fri., Sat., at 11.20.*

[50. *The Modern Novel*]

A study of the currents of modern life and thought as expressed in some of the best novels of the nineteenth century. *Professor* Damon.

Three hours. Third term. Elective for Sophomores and Juniors who have taken French 50 and German 50. Not offered in 1908–9.

[22. *American Literature*]

American literature from the beginning in its relation to American life and to English literature. *Professor* Bronson.

Three hours. Two meetings a week, and a third meeting at the pleasure of the instructor. Through the year. Elective for students who have credit for 11, 19, or 20. Not offered in 1908–9.

23. *Seminary in English Literature*

Subject for 1908–9: The history of literary criticism in England. *Professor* Damon.

Three hours. Two hours of attendance. Through the year. Elective for Graduates, and for a limited number of Seniors who have attained the grade of C in two of the courses from 9 to 22 inclusive.

X. GEOLOGY ‡

Charles Wilson Brown, A.M., *Assistant Professor of Geology*
Nelson Clark Dale, Sc.B., *Assistant in Geology*
Peter Augustus Worsley, A.B., *Assistant in Geology*

3. *General Geology*

A discussion of the origin, weathering, and metamorphism of rocks; of other agencies that have affected the formation and development of the earth and its crust; of certain land-forms and the stages of their development; a review of earth changes, with special reference to the development of the North American continent; the types of life characteristic of the different periods, and the principles of organic evolution they illustrate. Lectures, illustrated by models and lantern views. One-third of the first term will be devoted to laboratory work. Two field trips will be taken in the first term and three in the third term.

Three hours. Through the year. Elective for Sophomores who do not elect 1, and for Juniors and Seniors. *Tu., Fri., Sat., at 10.20.*

6. *Dynamical and Structural Geology*

An advanced course dealing with sedimentary formations old and new; with mineral veins, folds, faults, mountain-making, and other characteristics of crustal movements; and with the nature and results of igneous and metamorphic activities.

Three hours. One term. Offered if applied for. Elective for students who have credit for 3 or 16.

1. *Mineralogy*

Crystallography. The more common minerals; their recognition and determination; their occurrence in rocks; the physical properties of minerals; blowpipe analysis. Lectures and laboratory work. *Professor* Brown *and Mr.* Dale.

Three hours. Through the year. Elective for Sophomores who do not elect 3, and for Juniors and Seniors. *Tu. at 11.20; Th. 2.20 to 4.20.* Two laboratory hours to be arranged with the instructor.

‡ Students who wish a general view of the geologic processes concerned in the development of the earth and its life should take course 3. Those who contemplate teaching physical geography should take also courses 12, 9, and 8. Students who desire to specialize in mining engineering, geology, or geography, in order to teach or to obtain appointment on government or state geological surveys, are advised to elect first the work in mineralogy and to follow it with courses 3, 11, 4, 9, 8, 6, and 12, approximately in the order given.

4. *Petrography*

A study of the optical properties of minerals; determination of minerals and rocks by means of the petrographic microscope; a discussion of the fundamental principles of the origin and classification of rocks. Lectures and laboratory work. *Professor* Brown *and Mr.* Dale.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates, who have taken or are taking 1. Students intending to take this course are advised to take Physics 5 in preparation. *Wed. at 11.20.* Four laboratory hours to be arranged with the instructor.

9, 8, 11. *Field Geology*

Geological maps, their use and methods of construction; practice in the actual working out of the surface geology and stratigraphy of an assigned definite area. Field work and reports.

Three hours. Through the year. One conference hour to be arranged with the instructor and the equivalent of six hours' work in the field-area. Elective for Juniors, Seniors, and Graduates. The first term may be taken independently and is elective for students who have credit for 3 or 16; the first and second terms may be elected as a two-term course; the third term may be elected independently by students who are taking 3 or 16.

17, 16. *Engineering Geology*

A discussion of the geologic processes and results that are closely related to engineering problems. Lectures, laboratory and field work. The first term includes laboratory work upon the rock-forming minerals, typical rocks, and building stones. Two field trips in the first term and three in the third term are required, with detailed notes of the regions visited. *Professor* Brown, *Messrs.* Dale *and* Worsley.

Two hours (four hours of attendance), three hours. First and third terms. Required in the Junior year for the degree of Bachelor of Science in Civil Engineering. Not elective. *Tu. 9.20 to 11.20; Fri. 10.20 to 12.20; Mon., Wed., Fri., at 10.20.*

12. *Physical and Commercial Geography*

A study of the physical features of the land; of climate, winds, ocean currents; of the geographical distribution of food-stuffs and raw materials of industry; and of the consequent development of commerce and of civilization in its economic aspects. Lectures and laboratory work. This course is the same as Economics 13. *Professors* Brown *and* Kirk.

Three hours. Through the year. Elective for Juniors and Seniors. *Wed., Th., at 10.20; Fri. 2.20 to 4.20.*

13. *Physiographic Seminary*

Discussions and reports on the more advanced problems of Physiography.

Three hours. One hour of attendance. Through the year. By special arrangement with the instructor, the course may be taken for a shorter period. Elective for Graduates, for Undergraduates who have passed the first term's work in course 12, and for others who have had sufficient preliminary training in Physiography.

14. *Geologic Investigation*

Research work in the field and the laboratory, arranged to meet the needs of individual students.

Through the year. By special arrangement with the instructor, the course may be taken for a shorter period. Elective for qualified Graduates and for from one to six hours for approved Undergraduates.

XI. GERMANIC LANGUAGES AND LITERATURES

Camillo von Klenze, Ph.D., *Professor of the Germanic Languages and Literatures*

Asa Clinton Crowell, Ph.D., *Associate Professor of the Germanic Languages and Literatures*

Johannes Benoni Eduard Jonas,† Ph.D., *Assistant Professor of the Germanic Languages and Literatures*

Robert McBurney Mitchell, A.B., *Instructor in German*

Francis Joseph Neef, Ph.B., *Instructor in German*

1. *Introductory Course*

Reading, grammar, composition, conversation, dictation, sight reading. *Messrs.* Mitchell *and* Neef.

Three hours. Through the year. Required of all students who did not present German for admission. *1st div. Tu., Wed., Sat., at 9.20; 2d div. Mon., Th., Fri., at 9.20; 3d div. Tu., Th., Sat., at 12.20; 4th div. Mon, Tu., Th., at 2.20.*

2. *Intermediate Course*

Reading of modern German stories (Batt and Allen's *German Stories*, volumes 1 and 2), lyrics (von Klenze or Hatfield), and one or two dra-

† On leave of absence during the academic year 1908–9.

mas of the classical period. Review of grammar; composition; conversation based upon the texts read. *Professor* CROWELL, *Messrs.* MITCHELL *and* NEEF.

Three hours. Through the year. Required of all Freshmen who presented elementary German for admission. Not elective for students who have taken German in college. *1st div. Wed., Fri., Sat., at 11.20; 2d div. Tu., Fri., Sat., at 10.20; 3d div. Mon., Wed., Th., at 10.20.*

3, 4, 5. *Reading Course*

Reading of modern German stories (Batt and Allen's *German Stories,* volume 2), lyrics (von Klenze or Hatfield), and two dramas illustrating respectively the classical and the modern period (Schiller's *Maria Stuart* and Hebbel's *Agnes Bernauer*). Review of grammar; composition; conversation based upon the texts read. *Professor* CROWELL *and Mr.* NEEF.

Three hours. Through the year. Elective for students who have credit for 1. *1st div. Mon., Wed., Th., at 10.20; 2d div. Wed., Fri., Sat., at 11.20.*

6. *Modern Prose*

Aims to train the student in reading, speaking, writing, and understanding modern German. Reading of texts selected from fiction, history, and science (Liliencron, Keller, Freytag, Helmholtz, etc.), and a text (such as Mosher's *Willkommen in Deutschland*) to introduce the student to the actual language of modern daily life. Talks in German; oral and written reports in German; letter-writing, composition, and conversation. *Professor* VON KLENZE.

Three hours. Through the year. Elective for students who have credit for 1 or 2, and for students who presented advanced German for admission. *Tu., Fri., Sat., at 10.20.*

7. *Advanced Course in Standard Authors, Classical and Modern*

One drama of Goethe's, Grillparzer's *Hero und Leander,* Hebbel's *Herodes und Mariamne,* Keller's *Romeo und Julie auf dem Dorfe,* Sudermann's *Frau Sorge.* Talks in German on the history of German literature; oral and written reports in German. *Professor* VON KLENZE.

Three hours. Through the year. Elective for students who have credit for 2, and for students who presented advanced German for admission. *Mon., Tu., Th., at 11.20.*

[23, 24, 25. *German Lyrical Poetry*]

Introduces the student to the various aspects of the inner life of the

German people as reflected in the lyrical poetry of the last two centuries. Lectures in German; oral and written reports in German.

Three hours. Through the year. Elective for students who have credit for 5 or 7, or who presented advanced German for admission; also for other approved students. Each term may be elected independently. Not offered in 1908–9.

26, 27, 28. *The German Short Story*

Kleist, Ludwig, Storm, C. F. Meyer, Keller, Rosegger. A study of the origin of the short story and its development in the nineteenth century, with frequent references to its chief representatives in France, England, and America. Lectures in German; oral and written reports in German. *Mr.* MITCHELL.

Three hours. Through the year. Elective for students who have credit for 2 or 5. Each term may be elected independently. *Mon., Wed., Th., at 10.20.*

[29, 30, 31. *The German Drama of the Nineteenth Century*]

Kleist, Grillparzer, Hebbel, Hauptmann, and Sudermann. A study of the development of the German drama from waning romanticism to realism, with frequent references to the chief representatives of the modern drama in other countries.

Three hours. Through the year. Elective for students who have credit for 5, 6, or 7. Each term may be elected independently. Not offered in 1908–9.

[32. *Lessing and Schiller*]

A study of the life and representative works of each author and the problems they present. *Professor* CROWELL.

Three hours. Through the year. Elective for students who have credit for 5 or 7. Not offered in 1908–9.

10. *Goethe's Faust: Parts* 1 *and* 2

With some notice of recent dramas of kindred interest. *Professor* CROWELL.

Three hours. Through the year. Elective for students who have credit for 5 or 7. *Mon., Th., Fri., at 9.20.*

[33, 34, 35. *Goethe: A Study of His Life and Works*]

Lectures in German; reports on assigned topics; extensive reading. *Professor* VON KLENZE.

Three hours. Through the year. Elective for students who have credit for 7, 10, or 14. Not offered in 1908–9.

12, 13, 14. *Outline History of German Literature*

Aims to acquaint the student with the most important movements in the evolution of German literary life. Lectures in German; reports on assigned topics; extensive reading. *Professor* von Klenze.

Three hours. Through the year. Elective for students who have credit for 7 or 10. *Tu., Th., Sat., at 12.20.*

16. *Gothic and Old High German*

The Gothic language, with reading of extracts in Streitberg's *Gotisches Elementarbuch* or Braune's *Gotische Grammatik.* Braune's *Althochdeutsche Grammatik* and *Althochdeutsches Lesebuch. Professor* Crowell.

Three hours. Through the year. Elective for Graduates. *Mon., Tu., Th., at 4.20.*

[17. *Germanic Mythology*]

Primitive Germanic religion, customs, and ideas, in their relations to German literature. Discussions based on E. Mogk's *Germanische Mythologie.*

One hour. Through the year. Elective for Juniors, Seniors, and Graduates. Not offered in 1908–9.

[20. *Old Norse*]

Holthausen's *Altisländisches Elementarbuch;* Wilken's *Prosaische Edda; Die Lieder der Edda,* edited by Sijmons and Gering. *Professor* Crowell.

Two hours. Through the year. Elective for Graduates. Students electing Old Norse should also take Germanic Mythology. Not offered in 1908–9.

[15. *Middle High German*]

The language of the Middle High German period, including an introduction to Germanic philology. Michel's *Mittelhochdeutsches Elementarbuch; Das Nibelungenlied. Professor* von Klenze.

Three hours. Through the year. Elective for students who have credit for 7, 10, 14, or 16. Not offered in 1908–9.

36. *Seminary in German Literature*

Aims to give training in modern methods of investigation and criticism. To be carried on in German. Subject for 1908–9: Problems affecting the sources, the evolution, and the technic of the short story of the nineteenth century. *Professor* von Klenze.

Three hours. One session weekly. Through the year. Elective for approved students.

[50. *The Classical Literature of Germany in English*]
A study of Lessing, Schiller, and Goethe, by means of English translations, in the light of the German culture of the eighteenth century, with supplementary lectures on the German drama of the nineteenth century. *Professor* VON KLENZE.

Three hours. Second term. Elective for Sophomores and Juniors who have taken French 50. Not offered in 1908–9.

XII. GREEK LITERATURE AND HISTORY‡

JAMES IRVING MANATT, PH.D., LL.D., *Professor of Greek Literature and History*

FRANCIS GREENLEAF ALLINSON, PH.D., *David Benedict Professor of Classical Philology*

DAVID WILKINSON SMITH, A.M., *Assistant in Greek*

A, B, C. *Elementary Course*

Designed to cover as much as possible of the entrance requirements in Greek, and thus to enable a student to take 1, 2, and 3 in the following year if he completes by private study before the opening of the first term the entire requirement in the *Anabasis*, and before the opening of the third term the entire requirement in Homer. *Mr.* SMITH.

Three hours. Through the year. Elective for students who did not present elementary and advanced Greek for admission. *Tu., Th., Sat., at 12.20.*

3. *Lysias*

Selections from Lysias; selections for sight reading from Herodotus. *Professor* ALLINSON.

Three hours. First term. Elective for students who presented elementary and advanced Greek for admission, or who have credit for Greek A, B, C and have done the additional work indicated above. *Tu., Th., Sat., at 12.20.*

1. *Plato*

Plato's *Apology* and *Crito*, with selections from the *Phaedo*. *Professor* ALLINSON.

Three hours. Second term. Elective for students who have credit for 3. *Tu., Th., Sat., at 12.20.*

2. *Homer*

The *Odyssey*, four books; rapid reading of other books; lectures on

‡ Courses 1, 2, 3 are a prerequisite for the more advanced courses in this department.

the life of the Heroic Age as revealed in the poems and illustrated by recent archaeological research. *Professor* MANATT.

Three hours. Third term. Elective for students who have credit for 1. *Tu., Th., Sat., at 12.20.*

4. *Lucian*

Selected writings. *Professor* ALLINSON.

Three hours. First term. Elective for Sophomores. *Mon., Wed., Th., at 10.20.*

35. *Greek Historians*

Selections from Herodotus, Thucydides, and Xenophon, with a general review of Greek History. *Professor* MANATT.

Three hours. Second term. Elective for Sophomores. *Mon., Wed., Th., at 10.20.*

6. *Dramatic Poets*

Lectures on the Greek drama. The *Prometheus* of Aeschylus; the *Oedipus Tyrannus* of Sophocles. *Professor* ALLINSON.

Three hours. Third term. Elective for Sophomores. *Mon., Wed., Th., at 10.20.*

[7. *Plato and Aeschylus*]

Republic, book x; selections from books I-IX; *Agamemnon. Professor* ALLINSON.

Three hours. First term. Elective for Juniors and Seniors. Not offered in 1908–9.

[8. *Homer*]

Advanced course in the *Iliad* or the *Odyssey,* intended to serve as an introduction to prehistoric archaeology and as a preparation for teaching Homer. *Professor* MANATT.

Three hours. Second term. Elective for Juniors and Seniors. Not offered in 1908–9.

[9. *Theocritus and Herondas*]

Twenty *Idylls* of Theocritus and selected *Mimes* of Herondas. *Professor* MANATT.

Three hours. Third term. Elective for Juniors and Seniors. Not offered in 1908–9.

10. *The Drama*

The *Medea* of Euripides and the *Frogs* of Aristophanes, with rapid reading of the *Seven against Thebes* of Aeschylus for literary criticism. *Professor* ALLINSON.

Three hours. Third term. Elective for Juniors and Seniors.

11. *Herodotus*

A study of Greek History down to the beginning of the Athenian Empire. Collateral reading of Aeschylus' *Persae;* and (in translation) Plutarch's *Solon, Themistocles,* and *Aristides. Professor* MANATT.

Three hours. First term. Elective for Juniors and Seniors. *Wed., Fri., Sat., at 11.20.*

12. *Thucydides*

The Rise and Fall of the Athenian Empire. Collateral reading of Aristophanes' *Acharnians* and *Knights;* and Plutarch's *Cimon, Pericles,* and *Alcibiades. Professor* MANATT.

Three hours. Second term. Elective for Juniors and Seniors. *Wed., Fri., Sat., at 11.20.*

[13. *Lucian*]

Advanced course. *Professor* ALLINSON.

Three hours. First term. Elective for Juniors and Seniors. Not offered in 1908–9.

[14. *Aeschines and Demosthenes*]

Speeches on the Crown; study of the Macedonian period and of Athenian political life. *Professor* MANATT.

Three hours. Second term. Elective for Juniors and Seniors. Not offered in 1908–9.

[15. *Pindar*]

Select Odes. *Professor* MANATT.

Three hours. Third term. Elective for Juniors and Seniors. Not offered in 1908–9.

[16, 17, 18. *Homer*]

The *Odyssey;* portions of the *Iliad* and the *Hymns* in the original; the remainder of the poems in translation. *Professor* MANATT.

Three hours. Through the year. Elective for Juniors and Seniors. Not offered in 1908–9.

19, 20. *Greek Composition*

Professor ALLINSON.

One hour. Second and third terms. Elective for Sophomores, Juniors, and Seniors.

21, 22. *Modern Greek*

Introduction to the language; readings from living Greek authors and Greek newspapers. *Professor* MANATT.

One hour. Second and third terms. Elective for Sophomores, Juniors, and Seniors.

23, 24, 25. *Greek Seminary*

Subjects for 1908–9: Menander and the Comic Fragments; Greek epigraphy, or comparative philology (*see* Indo-European Philology 4); Greek historical inscriptions. *Professors* MANATT (25) *and* ALLINSON (23, 24).

One two-hour session weekly. Through the year. Elective for Graduates and approved Seniors.

[26. *Attic Orators*]

Isaeus; Greek historical inscriptions. *Professor* MANATT.

Two hours. First term. Elective for Graduates and approved Seniors. Not offered in 1908–9.

[27, 28. *Homer and Mycenaean Archaeology*]

The Achillean books of the *Iliad* and the Ithacan books of the *Odyssey* studied in the light of recent archaeological discoveries. *Professor* MANATT.

Two hours. First and second terms. Elective for Graduates and approved Seniors. Not offered in 1908–9.

[29. *Demosthenes*]

Private speeches, selected to illustrate the workings of Athenian institutions. *Professor* MANATT.

Three hours. First term. Elective for Graduates. Not offered in 1908–9.

30, 31, 32. *Hellenistic Greek*

Characteristics of Hellenistic Greek (ἡ κοινή). The *Apologies* of Justin Martyr, or selections from the *New Testament*. This course is the same as course 12 offered by the department of Biblical Literature and History. First and second terms, *Professor* FOWLER. Third term, *Professor* ALLINSON.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 2.20.*

33. Greek Life

The private and public life of the Greeks studied in the light of their history, literature, and monuments. Manual, lectures, and prescribed reading, with frequent reports, written tests, and essays. No knowledge of Greek or Latin required. The course is continued in the second and third terms as Latin 28, 29. The three terms together constitute the course in the History of Greek and Roman Life and Institutions, which alternates with Greek 34, Latin 30, and Indo-European Philology 1. *Professor* MANATT.

Three hours. First term. Elective for Freshmen and Sophomores. *Mon., Tu., Th., at 11.20.*

[*34. Greek Literature*]

A brief history of the literature of the Greeks from Homer to Theocritus, with study of the masterpieces in the best English translations. No knowledge of Greek or Latin required. This course is continued in the second and third terms as Latin 30 and Indo-European Philology 1. The three terms together constitute the course in Greek and Roman Literature and the History of Language, which alternates with Greek 33, Latin 28, 29. *Professor* ALLINSON.

Three hours. First term. Elective for Freshmen and Sophomores. Not offered in 1908–9.

XIII. HISTORY ‡

WILLIAM MACDONALD, PH.D., LL.D., *Professor of History*
WILFRED HAROLD MUNRO, A.M., *Professor of European History*
SAMUEL CHILES MITCHELL, PH.D., D.D., LL.D., *Lecturer in History*

1. *Medieval and Modern History of Europe*

A general survey of the history of western Europe from the time of the barbarian invasions to 1815. A narrative text-book supplemented by lectures, frequent written tests, and written reports and abstracts on assigned reading and topics for special investigation. *Professor* MACDONALD. [This year *Dr.* MITCHELL.]

Three hours. Through the year. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy in either the Sophomore or the Junior year. *Mon., Tu., Th., at 2.20.*

‡ The elective courses in History are regularly open only to those who have credit for 1; but, by special permission of the instructor, elective courses may be taken by Juniors who are at the same time taking 1.

2. *Spanish History*

Development of Spanish institutions, political and social; rise and greatness of Spain as a European power; its colonial system; its position with reference to the Reformation and the subsequent religious wars. *Professor* MUNRO.

Three hours. First term. Elective for Juniors, Seniors, and Graduates. *Tu., Fri., Sat., at 10.20.*

3. *Islam and the Crusades*

Social and political conditions in Europe and the East at the beginning of the Crusades; organization and internal condition of Islam; effect of the Crusades on the thought, life, and political development of Europe. *Professor* MUNRO.

Three hours. Second term. Elective for Juniors, Seniors, and Graduates. *Tu., Fri., Sat., at 10.20.*

4. *Period of the Renaissance*

Preparation for the Renaissance in the intellectual and social life of Europe; spread of the revival; connection between the Renaissance and the Reformation; artistic and literary aspects of the movement. *Professor* MUNRO.

Three hours. First term. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 12.20.*

5. *Period of the Reformation*

Early movements of dissent from the Roman Church; the Protestant revolt in Germany, Switzerland, France, and England; the political and social aspects of the Reformation; the religious wars; the effect on religious belief and church organization. *Professor* MUNRO.

Three hours. Second term. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 12.20.*

6. *The French Revolution*

Rise and progress of the Revolution in France; political and social conditions in Europe 1789–1815; permanent results of the Revolution, particularly its effect on political thought and practice. *Professor* MUNRO.

Three hours. Third term. Elective for Juniors, Seniors, and Graduates. *Tu., Fri., Sat., at 10.20.*

7. *European History since 1815*

Political development of the more important states and their diplomatic relations; the revolutions of 1830 and 1848; the free-trade movement in England; the achievement of Italian unity; the founding of the German Empire; the Franco-Prussian war; the Eastern question, etc. *Professor* MUNRO.

Three hours. Third term. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 12.20.*

[8, 9, 10. *English Constitutional and Political History to 1689*]

Formation of the English constitution; establishment and growth of the church; relations with Scotland and Ireland; the Reformation; the Puritan Revolution. *Professor* MUNRO.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Each term may be elected independently. Not offered in 1908–9. To be offered in 1909–10.

11, 12, 13. *English Constitutional and Political History since 1689*

Foreign relations; the development of party government and the cabinet system; the social and political changes of the nineteenth century. *Professor* MUNRO.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Each term may be elected independently. *Mon., Tu., Th., at 2.20.*

14, 15, 16. *Seminary in European History*

Discussion of assigned subjects, reports of reading and investigation, and similar exercises. *Professor* MUNRO.

Three hours. One hour of class-room attendance. Through the year. Elective for Graduates. Each term may be elected independently.

19, 20, 21. *Constitutional and Political History of the United States*

An advanced course covering the period from 1783 to the present time. Intended primarily for students who wish to specialize in American history or who expect to study law. *Professor* MACDONALD.

Three hours. Two meetings a week. Elective for Juniors, Seniors, and Graduates. *Mon., Fri., at 2.20.*

22, 23, 24. *Seminary in American History*

Designed to afford training in historical investigation and practice in the use of sources. The subjects vary from year to year, and are drawn from both the colonial and the constitutional periods. For

1908–9 the subjects are: First term, The English colonies in the early part of the eighteenth century. Second term, Biographical studies of early Revolutionary leaders. Third term, The administrations of Jefferson. *Professor* MacDonald.

Three hours. One hour of attendance. Through the year. Elective for Graduates and approved Seniors. The course should be preceded by 27, 28, 29 or 19, 20, 21, but by special permission it may be taken by students who are taking 27, 28, 29 or 19, 20, 21.

27, 28, 29. *American History*

A general course covering the whole period from the beginnings of English colonization to the end of the Civil War. Lectures, supplemented by assigned reading, study of the texts of representative documents, and special reports. Intended as an introduction to the advanced courses in American history, and for students who wish only a general survey of the subject or who expect to teach history. *Professor* MacDonald. [This year *Dr.* Mitchell.]

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Wed., Fri., Sat., at 11.20.*

[25.* *Principles of Historical Criticism and Research*]

The general principles of historical criticism and the literature of historical theory; Langlois and Seignobos's *Introduction to the Study of History* is used as a manual. *Professor* MacDonald.

One hour. One term. Elective for Graduates of one year's standing. Required of all candidates for the degree of Doctor of Philosophy in History. Not offered in 1908–9.

XIV. INDO-EUROPEAN PHILOLOGY

Francis Greenleaf Allinson, Ph.D., *David Benedict Professor of Classical Philology*

[1. *General Introduction to the Study of Language*]

Outline of the history of language; the Indo-European family. Adapted for students of ancient or modern languages. A continuation of Greek 34, Latin 30. The three terms together constitute the course in Greek and Roman Literature and the History of Language.

Three hours. Third term. Elective for Freshmen and Sophomores. *Mon., Tu., Th., at 11.20.* Not offered in 1908–9.

4. *Seminary in Comparative Philology*

For advanced students in Greek and Latin.

One two-hour session weekly. Third term. Elective for Graduates and approved Seniors.

7, 8, 9. *Sanskrit, elementary course*

Whitney's *Grammar;* Lanman's *Reader;* selections from the *Vedic Hymns.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates.

[10, 11, 12. *Sanskrit, advanced course*]

Vedic Hymns, and other selections.

One hour. Through the year. Elective for students who have credit for 7, 8, 9. Not offered in 1908–9.

XV. MATHEMATICS ‡

Nathaniel French Davis, A.M., LL.D., *Professor of Pure Mathematics*

Henry Parker Manning, Ph.D., *Associate Professor of Pure Mathematics*

Frederick Slocum,† Ph.D., *Assistant Professor of Astronomy*

Roland George Dwight Richardson,† Ph.D., *Assistant Professor of Pure Mathematics*

Clinton Harvey Currier, A.M., *Instructor in Mathematics*

Raymond Clare Archibald, Ph.D., *Instructor in Mathematics*

Nels Johann Lennes, Ph.D., *Instructor in Mathematics*

3. *Algebra*

Professors Davis *and* Manning, *Mr.* Currier, *Dr.* Archibald, *and Dr.* Lennes.

Four hours. First term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented only Plane Geometry for admission. *Tu., Wed., Fri., Sat., one division at 8, the others at 9.20.*

‡ The Undergraduate courses 1–11 should be taken in the order in which they are printed. Courses 12, 13, 14 may be taken at any time after the Freshman year. Courses 17–21 are designed for students who are taking or who intend to take engineering courses. Courses 22–26 are designed for Graduates; two or three of these courses are offered each year according to the needs of applicants; for those who have taken all of them, other courses can usually be arranged.

† On leave of absence during the academic year 1908–9.

1. *Geometry, Solid and Spherical*

Professors Davis *and* Manning, *Mr.* Currier, *Dr.* Archibald, *and Dr.* Lennes.

Four hours. Second term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented only Plane Geometry for admission. *Tu., Wed., Fri., Sat., one division at 8, the others at 9.20.*

2. *Trigonometry*

Professors Davis *and* Manning, *Mr.* Currier, *Dr.* Archibald, *and Dr.* Lennes.

Four hours. Third term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented only Plane Geometry for admission. *Tu., Wed., Fri., Sat., one division at 8, the others at 9.20.*

4. *Analytic Geometry*

Professor Davis, *Dr.* Archibald, *and Dr.* Lennes.

Three hours. First and second terms. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. Elective for students who have credit for 1, 2, 3. *Mon., Wed., Fri., at 12.20.*

5. *Differential Calculus*

Dr. Archibald *and Dr.* Lennes.

Three hours. Third term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. Elective for students who have credit for 4. *Mon., Wed., Fri., at 12.20.*

6. *Integral Calculus*

Professor Davis.

Three hours. First term. Elective for students who have credit for 5. *Tu., Th., Sat., at 12.20.*

7. *Applications of the Differential Calculus*

Professor Davis.

Three hours. Second term. Elective for students who have credit for 6. *Tu., Th., Sat., at 12.20.*

8. *Applications of the Integral Calculus*

Professor Davis.

Three hours. Third term. Elective for students who have credit for 6. *Tu., Th., Sat., at 12.20.*

9, 10, 11. *Differential Equations*

Professor MANNING.

Three hours. Through the year. Elective for students who have credit for 6 or 21. First term required of candidates for the degree of Bachelor of Science in Electrical Engineering. *Mon., Wed., Fri., at 12.20.*

12. *Determinants and Theory of Equations*

Mr. CURRIER.

Three hours. Second term. Elective for students who have credit for 3 or 16.

13. *Modern Methods of Analytic Geometry*

Professor MANNING.

Three hours. Third term. Elective for students who have credit for 4 or 19.

[14. *Solid Analytic Geometry*]

Professor MANNING.

Three hours. Third term. Elective for students who have credit for 4 or 19. Not offered in 1908–9.

15. *Spherical Trigonometry*

Mr. CURRIER.

One hour. First term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. Elective for students who have credit for 2 and who have not taken Spherical Trigonometry. *Mon., Th., at 9.20.*

16. *Algebra*

Mr. CURRIER *and Dr.* ARCHIBALD.

One hour, first term. Two hours, second and third terms. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. *Mon., Th., at 9.20.*

17. *Algebra*

Professor MANNING, *Mr.* CURRIER, *Dr.* ARCHIBALD, *and Dr.* LENNES.

Six hours. First term. Required of candidates for the degree of Bachelor of Science. *Mon., Tu., Wed., Th., Fri., Sat., one division at 12.20, the others at 11.20.*

18. *Trigonometry, Plane and Spherical*

Professors DAVIS *and* MANNING, *Mr.* CURRIER, *Dr.* ARCHIBALD, *and Dr.* LENNES.

Six hours. Second term. Required of candidates for the degree of Bachelor of Science. *Mon., Tu., Wed., Th., Fri., Sat., one division at 12.20, the others at 11.20.*

19. *Analytic Geometry*

Professors DAVIS *and* MANNING, *Mr.* CURRIER, *Dr.* ARCHIBALD, *and Dr.* LENNES.

Six hours. Third term. Required of candidates for the degree of Bachelor of Science. *Mon., Tu., Wed., Th., Fri., Sat., one division at 12.20, the others at 11.20.*

20. *Differential Calculus*

Professor DAVIS, *Mr.* CURRIER, *and Dr.* ARCHIBALD.

Five hours. First term. Required of candidates for the degree of Bachelor of Science. *Tu., Wed., Th., Fri., Sat., one division at 9.20, the others at 8.*

21. *Integral Calculus*

Mr. CURRIER, *Dr.* ARCHIBALD, *and Dr.* LENNES.

Three hours. Second and third terms. Required of candidates for the degree of Bachelor of Science. *Tu., Wed., Fri., one division at 9.20, the others at 8.*

22. *Theory of Functions*

Professor MANNING.

Three hours. Through the year. Elective for Graduates and approved Seniors.

23. *Differential Equations, advanced course*‡

Professor MANNING.

Three hours. Through the year. Elective for Graduates who have credit for 22.

[24. *Advanced Algebra*]

Professor MANNING.

Three hours. Through the year. Elective for Graduates and approved Seniors. Not offered in 1908–9.

25. *General Theory of Curves and Surfaces*‡

Professor MANNING.

Three hours. Through the year. Elective for Graduates and approved Seniors.

26. *Quaternions and allied subjects*‡

Professor MANNING.

Three hours. Through the year. Elective for Graduates and approved Seniors.

‡ One of the three courses 23, 25, 26 will be offered if applied for by a sufficient number.

XVI. MECHANICAL ENGINEERING‡

WILLIAM HERBERT KENERSON, M.E., A.M., *Associate Professor of Mechanical Engineering*

THURSTON MASON PHETTEPLACE, PH.B., M.E., *Assistant Professor of Mechanical Engineering*

ROBERT SYLVESTER CURLEY, A.B., *Assistant in Mechanical Engineering*

HENRY DEWEES CADY, *Instructor in Shop Practice*

1, 2, 3. *Wood-work*

Exercises in carpentry, wood-turning, and pattern-making. *Mr.* CADY.

Three hours in any term. Seven hours of attendance. Elective for Sophomores, Juniors, and Seniors, who have had instruction in drawing. *Tu. 2.20 to 5.20; Fri. 2.20 to 6.20.*

4, 5, 6. *Metal-work*

Exercises in chipping and filing; the use of machine tools; forging and hardening tools, etc. *Mr.* CADY.

Three hours in any term. Seven hours of attendance. Elective for Sophomores, Juniors, and Seniors, who have had instruction in drawing. *Wed. 2.20 to 5.20; Fri. 2.20 to 6.20.*

8. *Kinematics*

Velocity ratios, rolling surfaces, cams, and belting. Recitations, drawing, and the solution of problems. *Professor* PHETTEPLACE.

Three hours. Seven hours of attendance. Third term. Elective for students who have credit for Mechanical Drawing 5. *Tu. 12.20 to 1.20, 2.20 to 5.20; Fri. 2.20 to 5.20.*

9, 10, 11. *Kinematics*

Gearing, linkwork, parallel motions, and gear trains; machine tools; the application of the principles involved. Recitations, drawing, and the solution of problems. *Professor* PHETTEPLACE.

Three hours. Seven hours of attendance. Through the year. Elective for students who have credit for 8 and for Mechanical Drawing 5. *Mon. 2 to 6; Th. 2.20 to 5.20.*

12, 13, 14, 15. *Machine Design*

Applications of the principles of mechanics and the strength of mate-

‡ All the courses in this department are required of candidates for the degree of Bachelor of Science in Mechanical Engineering. Courses 1–6 are all elective for Sophomores, Juniors, and Seniors, but not more than two of them may be counted towards the degree of Bachelor of Arts or Bachelor of Philosophy.

rials to the design of representative types of boilers, engines, and various mechanisms; solution of problems illustrating the method of designing bolts and nuts, keys, journals and bearings, fly-wheels, valve gears, etc. Lectures, calculation, and drawing. *Professor* PHETTEPLACE.

Three hours. Six hours of attendance. First, second, third, and third terms. Elective for students who have credit for 8, 9, 10, 11 and Mechanics 1. *Mon., Th., 10.20 to 1.20.*

16, 17, 18. *Thermodynamics*

Applications of the principles of gases and vapors to steam, gas, and other heat engines, air-compressors, refrigerating apparatus, etc.; discussion of the energy of fuel and the utilization of such energy for power purposes by means of various media; laws of the relation of variations of pressure, temperature, and volume of such media; analysis of the various cycles used in heat engines; the principles of the injector and the ejector. *Professor* KENERSON *and Mr.* CURLEY.

Three hours. Through the year. Elective for students who have credit for Physics 1, 2, 3. First and second terms, *Wed., Fri., Sat., at 12.20.* Third term, *Mon., Wed., Th., at 9.20.*

19, 20, 21. *Engineering Practice*

Applications of the principles of thermodynamics and mechanics to the production, transmission, utilization, and measurement of power; valves and valve gears, and valve setting; indicator practice and tests of various forms of steam engines, gas engines, etc.; standardization of auxiliary apparatus used in making the various tests; boiler testing; flue gas and fuel analysis, etc. Lectures, recitations, and laboratory work. *Professor* KENERSON *and Mr.* CURLEY.

Three hours. Through the year. Elective for students who have taken or are taking 16, 17, 18. First and second terms, *Tu., Wed., Sat., at 9.20; Tu. 2.20 to 4.20.* Third term, *Mon., Th., at 8; Tu. 2.20 to 4.20.*

22. *Materials of Engineering*

Study of the sources, manufacture, and properties of the important materials used in engineering; laboratory tests to determine the behavior of materials when subjected to tensile, compressive, and torsional stresses; mixing and testing of cements and mortars; preparation and examination of sections for the microscopical study of the structure of metals and alloys. Lectures, recitations, and laboratory work. *Professor* KENERSON *and Mr.* CURLEY.

Three hours. First and second terms. Elective for students who have taken Mechanics 3. *Wed., Fri., at 10.20. 1st div. Mon. 2.20 to 4.20; 2d div. Tu. 2.20 to 4.20; 3d div. Th. 2.20 to 4.20; 4th div. Mon. 9.20 to 11.20.*

23. Power Plant Engineering

Discussion of the relation and coördination of the various parts of the complete power plant; management, and methods of determining efficiency; selection of the best equipment from manufacturers' catalogues and actual inspection. Lectures, recitations, tests, and tours of inspection. *Professors* KENERSON *and* PHETTEPLACE.

Three hours. First term. Elective for students who have credit for 19, 20, 21. *Wed., Fri., 2.20 to 5.20.*

24. Advanced Laboratory Course

Investigation of special problems in hydraulic and steam engineering. Determination of experimental constants for the Venturi meter, flow of water over weirs and through pipes, flow of air, steam, etc. Particular emphasis laid on preparation and form of reports. *Professor* KENERSON.

Three hours. Second term. *Wed., Fri., 2 to 5.*

25. Thesis

A thesis is required of all candidates for the degree of Bachelor of Science in Mechanical Engineering. The thesis must embody a design or a review of an engineering plant, appliance, process, or structure, or the results of an experimental investigation.

XVII. MECHANICS AND MECHANICAL DRAWING

OTIS EVERETT RANDALL, PH.D., *Professor of Mechanics and Mechanical Drawing*

ANSEL BROOKS, PH.B., M.E., *Assistant Professor of Mechanics and Mechanical Drawing*

WILLIAM ARTHUR KENNEDY, PH.B., SC.B., *Instructor in Mechanical Drawing*

MECHANICS

1. *Mechanics of Solids*

Statics, including resolution and composition of forces, determination of center of gravity, and problems relative to rigid bodies and

flexible cords; dynamics, including rectilinear and curvilinear motion, virtual velocity, moment of inertia, work, energy and power, and friction; strength of materials, including tension, compression, shearing, torsion, flexure, and arches; methods of graphical solution of problems. *Professors* RANDALL *and* BROOKS.

Three hours. Through the year. Elective for students who have credit for Mathematics 4 and 5, and who have taken or are taking Mathematics 6. First and second terms required of all candidates for the degree of Bachelor of Science. *Mon., Tu., Th., at 11.20.*

3. *Strength of Materials*

Tension, compression, shearing, torsion, flexure, arches, and graphical solution of problems. *Professors* RANDALL *and* BROOKS.

Six hours. Third term. Required of all candidates for the degree of Bachelor of Science. *Mon., Tu., Wed., Th., Fri., Sat., at 11.20.*

2. *Mechanics of Fluids*

Hydrostatics; nature and use of instruments; flow through orifices, over weirs, through tubes, through pipes, in conduits, flow of rivers, water supply and water power, dynamic pressure of water, water wheels, turbines, pumps and pumping. *Professor* RANDALL.

Three hours. First and second terms. Required of all candidates for the degree of Bachelor of Science. Elective for students who have credit for 3. *Wed., Fri., Sat., at 11.20.*

4. *Advanced Mechanics*

Higher theoretical and practical problems. *Professor* RANDALL.

Three hours. Through the year. Elective for Seniors and Graduates who have credit for 3.

MECHANICAL DRAWING

1. *Elementary Mechanical Drawing, and Descriptive Geometry*

Nature, care, and use of drafting instruments; plane problem construction; theory of orthographic projection; discussion, proof, and graphic solution of problems in descriptive geometry relating to the point, line, and plane, to line and surface generation and classification, to surface tangency, and to intersections and developments; application of the principles of descriptive geometry in isometric drawing, in shades and shadows and perspective, in machine drawing, and in practical engineering problems. *Professors* RANDALL *and* BROOKS, *Mr.* KENNEDY.

Four hours. Through the year. First term, one hour of recitation and six hours of drawing. Second and third terms, three hours of recitation and three hours of drawing. Required in the Freshman year of candidates for the degree of Bachelor of Science. *Mon., Tu., Wed., Th., Fri., Sat., at 9.20 and 10.20.*

2. *Elementary Mechanical Drawing*

Nature, care, and use of drafting instruments; plane problem construction; theory of orthographic and isometric projection. *Professor* Brooks *and Mr.* Kennedy.

Three hours. Six hours of drawing. First term. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy, and for all Sophomores, Juniors, and Seniors. *Mon., Wed., Th., at 10.20.*

3. *Descriptive Geometry*

Discussion, proof, and graphic solution of problems in descriptive geometry. *Professor* Brooks *and Mr.* Kennedy.

Three hours. Two hours of recitation and two hours of drawing. Second and third terms. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy, and for Sophomores, Juniors, and Seniors, who have credit for 2. *Mon., Wed., Th., at 10.20.*

4, 5. *Machine Drawing*

Study and representation of machine parts; the principles of elementary machine design; sketches, detail and assembly drawings of machines; practice in reading drawings. *Professor* Brooks *and Mr.* Kennedy.

Three hours. One hour of recitation and eight hours of drawing. First and second terms. Required of candidates for the degree of Bachelor of Science in Mechanical Engineering or Electrical Engineering. Elective for students who have credit for 3. *Tu. at 12.20; Mon., Th., 2.20 to 5.20.*

6. *Elements of Machine Design*

Professor Brooks *and Mr.* Kennedy.

Three hours. One hour of recitation and five hours of drawing. Third term. Elective for students who have credit for 5.

8. *Mechanical Drawing, practical*

For students desiring to continue their course in drawing without taking the theoretical work of descriptive geometry. Intersections and developments; third quadrant projection; sketching and dimensioning; conventional methods of representing machine parts; de-

tailing and assembling; exercises in reading drawings; architectural drawing, including the drawing of plans and elevations, and the details of building construction. *Professor* Brooks *and Mr.* Kennedy.

Three hours. Six hours of drawing. Second and third terms. Elective for students who have credit for 2. *Mon., Wed., Th., at 10.20.*

XVIII. PHILOSOPHY

William Herbert Perry Faunce, A.M., D.D., LL.D., *Professor of Moral and Intellectual Philosophy*

Edmund Burke Delabarre, Ph.D., *Professor of Psychology*

Walter Goodnow Everett, Ph.D., *Professor of Philosophy and Natural Theology*

Walter Ballou Jacobs, A.M., *Professor of the Theory and Practice of Education*

Alexander Meiklejohn, Ph.D., *Professor of Logic and Metaphysics.*

Arthur Upham Pope, A.M., *Instructor in Philosophy*

1. *Logic*

Aims, methods, and limitations of human thinking; a preparation for work in the sciences and in philosophy. First term, general introduction and formal logic. Second term, principles and methods of the natural sciences. Third term, relations of science to philosophy; philosophical interpretation and criticism of the results of science. *Professor* Meiklejohn.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *Mon., Th., Fri., at 9.20.*

2. *Psychology, introductory course*

The main facts and laws of mental life, with particular attention to their arrangement in a scientific system. The course aims to provide a sound foundation for further acquaintance with this and allied subjects, for an improved judgment in dealing with many practical problems of life, and for beginning the study of philosophy. *Professor* Delabarre.

Three hours. Through the year. Elective for Juniors and Seniors. *Wed., Fri., Sat., at 11.20.*

3. *Psychology, advanced course*

A seminary for the discussion of important and interesting questions

in psychology. The course may be extended over several years, if desired. In the first year are usually studied the problems of mental composition, of the relation of mind and body, and of the criteria for accepting evidence for the more unusual or apparently marvelous phenomena to which the name psychical research is ordinarily applied. Special problems for study are arranged with individual students who desire to pursue the subject for a longer period, or who have had more than one year of previous preparation. *Professor* DELABARRE.

Three hours. Through the year. Elective for Undergraduates and Graduates who have taken course 2 or its equivalent.

4. *Experimental Psychology, introductory laboratory course*

Description of the main lines and results of experimental research; demonstrations by the instructor or the class; training in the use of apparatus and in careful scientific observation and measurement. *Professor* DELABARRE.

Three hours. Six hours of attendance. Through the year. Elective for Juniors, Seniors, and Graduates, who have taken or are taking 2. Although essentially a year course, it may, by special arrangement with the instructor, be taken for a shorter period.

5. *Experimental Psychology, advanced laboratory course*

The problems investigated vary and the course may be taken two or more years in succession. The aim is to study further the problems of experimental psychology, and, whenever possible, to make original contributions to scientific knowledge. *Professor* DELABARRE.

One to six hours. Two to twelve hours of attendance. Through the year. Elective for students who have credit for 4. May be taken for more than six hours by Graduates.

6, 7, 8. *History of Philosophy*

The successive philosophical systems in their dialectical development and mutual relations; treatment not merely analytic and historical, but synthetic and constructive as well. First term, Greek philosophy. Second term, medieval and early modern philosophy. Third term, recent and contemporary philosophy. *Professor* EVERETT.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Th., Fri., at 9.20.*

9, 10. *Theoretical Ethics*

Intended to aid in mastering the fundamental problems of life and character. First term, a discussion of the nature and relations of ethics and an outline of the history of the chief ethical systems. Second term, a critical study of the fundamental concepts of ethics with the aim of constructing a tenable theory of conduct. *Professor* EVERETT.

Three hours. First and second terms. Elective for Juniors, Seniors, and Graduates. *Tu., Wed., Sat., at 9.20.*

11. *Practical Ethics*

The application of ethical theory to the life of the individual, the family, and the state. Discussion of current problems, personal, industrial, and social, from the ethical standpoint. *President* FAUNCE.

Three hours. Third term. Elective for Juniors and Seniors. *Tu., Wed., Sat., at 9.20.*

12. *Philosophy of Religion*

A study of the nature of the religious consciousness and of the ultimate problems of religious belief. *Professor* EVERETT.

Three hours. Third term. Elective for Seniors and Graduates who have credit for one course in Philosophy. *Tu., Wed., Sat., at 9.20.*

13, 14, 15. *Philosophical Seminary*

Lectures, written reports, and discussions on the more difficult problems of philosophy. Subject for 1908–9: Studies in contemporary philosophy. *Professor* EVERETT.

Three hours. Through the year. Elective for Graduates.

16. *Kantian and Post-Kantian Philosophy*

Kant's *Critique of Pure Reason* studied as a source of modern philosophical theories. *Professor* MEIKLEJOHN.

Three hours. Through the year. Elective for Seniors who have credit for 6, 7, 8, and for Graduates.

[17. *Metaphysics*]

A seminary for the discussion of special problems in metaphysical theory. Reading, written reports, and discussions. *Professor* MEIKLEJOHN. Not offered in 1908–9.

Three hours. Through the year. Elective for Seniors who have credit for 6, 7, 8, and for Graduates.

EDUCATION‡

Professor JACOBS

1. *History of Education*

Education among the early culture peoples as forming and perpetuating their civilization; the development of education in Greece and Rome as parallel to the development of thought and learning; early Christian education; the Renaissance and humanism; the rise of realism in thought and education. The history of education considered from the point of view of the history of civilization.

Three hours. First term. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Fri., at 12.20.*

2. *Critical Study of Modern Education*

The beginnings of modern education; the naturalistic movement—Rousseau; the psychological movement—Pestalozzi, Froebel, Herbart; the scientific movement—Spencer; recent sociological tendencies; current experiments; problems which an adequate theory of education must solve.

Three hours. Second term. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Fri., at 12.20.*

3. *Fundamental Principles of Education*

The meaning and aim of education; the function of education as a social institution; the sequence and coördination of studies; the principles of instruction; apperception; the steps in method; the use of the type in instruction; the training of the will; the principles of moral education.

Three hours. Third term. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Fri., at 12.20.*

‡ Courses 1, 2, and 3 treat education in its relation to the individual and to the social and political whole; interest in them is therefore not limited to those who intend to teach. At the same time they form an introduction to the more advanced courses in Education. Those who intend to teach are advised to elect these courses during the Junior year.

Courses 1–6 cover the usual requirements for certificates of the First Grade except where practice teaching or experience is demanded. In Rhode Island a certificate is required of all teachers in schools supported in whole or in part by public money. Certificates of the First Grade are granted without examination to those who have completed courses 1–6 and hold a college degree. Due credit is also given for separate courses.

Certificates, authorizing the holders to teach in the evening schools of the State, are issued without examination to students who have completed three years of regular work, including Education 1–3.

4. *Psychology of Education*

Theory and process of mental development, with special emphasis upon the period of adolescence; psychology of method, and of the various studies and disciplines; ways in which student and teacher may utilize a knowledge of the more fundamental activities of the mind.

Three hours. First term. Elective for Seniors and Graduates who have credit for 1, 2, or 3, or who are taking 1. *Mon., Tu., Th., at 11.20.*

5. *Hygiene of Education*

A study of bodily growth and development; special emphasis upon the period of adolescence; play and fatigue; physical culture and athletics; arrested growth; the conditions and surroundings which favor or retard normal development; the hygiene of mind; school hygiene.

Three hours. Second term. Elective for Seniors and Graduates who have credit for 1, 2, or 3, or who are taking 2. *Mon., Tu., Th., at 11.20.*

6. *Practical Introduction to Teaching*

The method of the recitation; management and discipline of classes; observation of good teaching; practical applications of method.

Three hours. Third term. Elective for Seniors and Graduates who have taken or are taking other courses in Education. *Mon., Tu., Th., at 11.20.*

7, 8, 9. *Methods in Secondary School Studies and the Organization, Equipment, and Management of Secondary Schools*‡

Importance and meaning of secondary school studies; their organization into a curriculum; method as applied to each subject; the resources at the command of the teacher. The following studies receive special attention: first term, Latin and Modern Languages; second term, History and English; third term, Science and Mathematics.

Three hours. Two hours of class-room attendance. Through the year. Required of student-teachers. Elective for Graduates and experienced teachers. *Wed. 3.20 to 5.20.* Each term may be elected independently.

10, 11, 12. *Problems in Practical Teaching; Secondary Schools*‡

Practice teaching in the Providence High Schools under experienced teachers. Observation, reports, and conferences. Designed for those who wish to become instructors in colleges, teachers or principals in secondary schools, or superintendents of schools.

Three hours. Through the year. Elective for approved Graduates who have credit

‡ In connection with this course, and for an explanation of the work of student-teachers, see page 160.

for elementary courses in Education and who are taking 7, 8, 9 and 16, 17, 18. *Fri. at 3.20*, and at other hours to be arranged.

13, 14, 15. *Problems in Practical Teaching; Grammar Grades*‡

Practice teaching in the Providence Grammar Schools under experienced teachers. Observation, reports, and conferences. Designed especially for those who wish to become grade teachers, principals of grammar schools, or superintendents of schools, but also for those who wish to teach in secondary schools. The following studies receive special attention: first term, Arithmetic; second term, Language; third term, History and Geography.

Three hours. Through the year. Elective for approved Graduates who have credit for elementary courses in Education and who are taking 16, 17, 18. Elective also by special permission for a limited number of Seniors. *Mon. at 3.20*, and at other hours to be arranged.

16, 17, 18. *Seminary in Education*‡

Reviews and discussions of recent publications; reports on special studies undertaken by members. The subjects vary from year to year. For 1908–9 they are: first term, Recent Educational Theory; second term, The Administration of Schools; third term, Social Phases of Education.

Three hours. Through the year. Two hours of class-room attendance. Required of student-teachers. Elective for Graduates and experienced teachers. *Sat. 10.20 to 12.20.* Each term may be elected independently.

XIX. PHYSICS

Carl Barus, Ph.D., LL.D., *Hazard Professor of Physics*
Albert deForest Palmer, Jr., Ph.D., *Associate Professor of Physics*
Arthur Eugene Watson, Ph.D., *Assistant Professor of Physics*
Robert Franklin Field, A.M., *Assistant in Physics*

1, 2, 3. *Elementary Physics*§ ‖

First term, kinematics and dynamics. Second term, molecular physics. Third term, electricity. Lectures, illustrated by experiments and the lantern; weekly written exercises corrected in detail

‡ In connection with this course, and for an explanation of the work of student-teachers, see page 160.

§ Graduates attending courses 1, 2, 3, 4, 5, 6 are held responsible for all the demonstrations, or for the full equivalent of either Watson's or Daniel's *Principles of General Physics.*

‖ Students who intend to teach physics should elect courses 1, 2, 3; 4, 5, 6; 7.

by the instructors. Designed for those who have had little previous training in physics. *Professor* BARUS.

Three hours. Through the year. Elective for Undergraduates who have credit for Mathematics 1, 2, 3. *Mon., Wed., Th., at 10.20.*

4, 5, 6. *Elementary Physics, continued* ‡

First term, optics. Second term, acoustics, polarization of light. Third term, heat. Methods as in 1, 2, 3. *Professor* BARUS.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors, who have credit for 1, 2, 3. *Tu., Fri., Sat., at 10.20.*

7. *Physical Measurements*

Elementary theory and practice of physical manipulation. Reports of experiments and solution of problems. *Professor* PALMER *and Mr.* FIELD.

Three hours. Six hours in the laboratory. Through the year. Elective for students who have credit for 1, 2, 3 or 4, 5, 6.

8, 9, 10. *Mathematical Treatment of Dynamical Problems* §

Lectures. First term, discussion of the general principles of dynamics and the development of the general equations of motion. Second and third terms, application of these principles to special problems in thermodynamics and hydrodynamics. *Professor* PALMER.

Three hours. Through the year. Elective for Seniors and Graduates who have credit for 7 and Mathematics 9.

11, 12, 13. *Mathematical Theory of Electricity and Magnetism* §

Lectures. Includes a discussion of the more important problems of electrical science. *Professor* PALMER.

Three hours. Through the year. Elective for Graduates and Seniors who have credit for 7 and Mathematics 9.

14, 15, 16. *Advanced Laboratory Course*

Special problems and reference to original sources for methods of solution. *Professors* BARUS, PALMER, *and* WATSON.

Three or six hours. Six or twelve hours of attendance. Through the year. Elective for students who have credit for 7.

‡ Graduates attending courses 1, 2, 3, 4, 5, 6 are held responsible for all the demonstrations, or for the full equivalent of either Watson's or Daniel's *Principles of General Physics.*

§ Of the two courses 8, 9, 10 and 11, 12, 13, only one will be offered in any given year. In determining which shall be offered, the preference of applicants will be considered.

17, 18, 19. *Applied Harmonic Analysis and Applied Vector Analysis*‡

Importance of Fourier's method shown by examples drawn from the analytical theory of heat, from elastics, alternating electricity, and elsewhere; treatment by the aid of spherical harmonics, Bessel functions, and Lamé functions; the chief theorems of vector analysis deduced and applied to dynamics, elastics, hydrodynamics, the electromagnetics of Maxwell and Hertz, and the electronic theory of Heaviside, Lorentz, and others. *Professor* BARUS.

Three hours. Through the year. Elective for Seniors and Graduates who have credit for 1, 2, 3 and Mathematics 6, 7, 8.

20, 21, 22. *Physics, advanced course*‡

Lectures on dynamics, potential, elastics, hydrostatics, hydrodynamics, viscosity, capillarity, electrostatics, magnetism, electro-magnetism, thermo-electrics, induction, Fresnel's optics, the electromagnetic theory of light, thermal analytics, and thermodynamics. Completed in two years. *Professor* BARUS.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates who have credit for Mathematics 6, 7, 8.

23. *Precision Measurements in Photometry, Electricity, and Magnetism.*

Professor PALMER.

Three hours. Six hours in the laboratory. Through the year. Elective for students who have credit for 7 or 24 and Mathematics 6.

24. *Theory of Measurements*

Lectures on the theory and precision of measurements and on methods of taking, recording, and reducing observations; laboratory instruction in selected physical measurements. *Professor* PALMER *and Mr.* FIELD.

Three hours. One lecture and three hours in the laboratory. Through the year. Elective for students who have credit for 1, 2, 3 or 4, 5, 6 and Mathematics 6 or 21. *Mon. at 12.20.*

‡ In determining which of the two courses 17, 18, 19 and 20, 21, 22 shall be offered in any given year, the preference of applicants will be considered.

ELECTRICAL ENGINEERING‡

Professor WATSON

1, 2, 3. *General Course*

First term, instruction in methods of generating and utilizing electric currents. Second term, technical study of the theory and working of direct current dynamo-electric machinery. Third term, laboratory practice in operating and testing various sizes and types of standard dynamos and accessory apparatus; lectures on alternating current machinery.

Three hours. Through the year. Elective for students who have taken or are taking Physics 3 and 7 and Mathematics 5 or 20. First term, *Mon., Th., Fri., at 9.20.* Second term, *Mon., Th., at 9.20;* one laboratory period. Third term, *Mon. at 9.20;* two laboratory periods.

4, 5, 6. *Alternating Currents*

Mathematical and graphical treatment.

Three hours. Two hours of recitation and two hours of laboratory work. Through the year. Elective for students who have credit for 3 and who have taken or are taking Mathematics 9. *Mon., Th., at 10.20;* one laboratory period.

7, 8, 9. *Industrial Electricity*

First term, telephone and telegraph engineering. Second term, history of electrical engineering. Third term, design and calculation of direct current machinery, including actual drawing of electrical machinery in connection with Mechanical Engineering 11.

Three hours. Through the year. Not elective. To be taken with 1, 2, 3. First term, *Tu., Wed., at 9.20; Sat. at 11.20.* Second and third terms, *Tu., Fri., at 9.20; Sat. at 11.20.*

11, 12. *Special Topics in Electrical Engineering*

Second term, electric railway engineering. Third term, design and calculation of alternating current machinery; central station design and equipment; systems of distribution.

Three hours. Second and third terms. Elective for students who have credit for 1, 2, 3. First term, *Tu., Wed., Fri., at 10.20.* Second term, *Tu., Fri., at 11.20* in addition.

‡ All the courses in this department are required of candidates for the degree of Bachelor of Science in Electrical Engineering. Courses 1, 2, 3 are required of candidates for the degree of Bachelor of Science in Mechanical Engineering. Courses 1 and 2 are required of candidates for the degree of Bachelor of Science in Civil Engineering.

13. *Specific Electrical Engineering Problems*

Reading and discussion. Seminary method.

Three hours. Third term. Not elective. *Tu., Wed., Fri., at 10.20.*

14. *Thesis*

A thesis is required of all candidates for the degree of Bachelor of Science in Electrical Engineering. The thesis must embody a design or a review of an engineering plant, appliance, process, or structure, or the results of an experimental investigation.

XX. ROMAN LITERATURE AND HISTORY

Albert Granger Harkness, A.M., *Professor of Roman Literature and History*

John Francis Greene, A.M., *Assistant Professor of Roman Literature and History*

1. *Livy*

Designed to enable the student to acquire facility in reading Latin, and to instruct him in the use of the Latin texts as a means of gaining a knowledge of Roman history; grammatical study and literary criticism also receive attention. *Professors* Harkness *and* Greene.

Three hours. First term. Elective for students who presented elementary and advanced Latin for admission. *1st div. Wed., Fri., Sat., at 11.20; 2d div. Tu., Th., Sat., at 12.20.*

2. *Cicero's Letters*

Aims and methods as in 1. *Professors* Harkness *and* Greene.

Three hours. Second term. Elective for students who presented elementary and advanced Latin for admission. *1st div. Wed., Fri., Sat., at 11.20; 2d div. Tu., Th., Sat., at 12.20.*

3. *Tacitus's Germania and Agricola.*

Aims and methods as in 1. *Professors* Harkness *and* Greene.

Three hours. Third term. Elective for students who presented elementary and advanced Latin for admission. *1st div. Wed., Fri., Sat., at 11.20; 2d div. Tu., Th., Sat., at 12.20.*

4. *Horace's Odes and Epodes*

Critical study of the poems, supplemented by rapid reading with a view to comprehending the spirit of the author; the literary side of

the study is made prominent. Lectures; literary topics assigned to the class for special study. *Professor* GREENE.

Three hours. First term. Elective for Sophomores. *Mon., Wed., Fri., at 12.20.*

5. *Catullus, Tibullus, and Propertius*

Aims and methods as in 4. *Professor* GREENE.

Three hours. Second term. Elective for Sophomores. *Mon., Wed., Fri., at 12.20.*

6. *Satires of Horace*

Aims and methods as in 4. *Professor* HARKNESS.

Three hours. Third term. Elective for Sophomores. *Mon., Wed., Fri., at 12.20.*

[7, 8, 9. *Latin Poetry*]

Aims to give a connected and comprehensive view of the history and development of Latin poetry. Forms with 10, 11, 12 a two-year consecutive course affording a general survey of Roman literature. Lectures on the lives and writings of the authors; reading of characteristic selections; special study by members of the class of assigned topics in literary history and criticism. First term, Plautus. Second term, Lucretius. Third term, Juvenal and Martial. *Professors* HARKNESS *and* GREENE.

Three hours. Through the year. Elective for Juniors and Seniors. Each term may be elected independently. Not offered in 1908–9.

10, 11, 12. *Latin Prose*

Aims to give a connected and comprehensive view of the history and development of Latin prose. Forms with 7, 8, 9 a two-year consecutive course affording a general survey of Roman literature. Lectures on the lives and writings of the authors, on the development of oratory, etc.; reading of characteristic selections; special study by members of the class of assigned topics in literary history and criticism. First term, specimens of early Latin, Cicero's *Brutus*, and Quintilian. Second term, Cicero. Third term, the *Annals* of Tacitus. *Professors* HARKNESS *and* GREENE.

Three hours. Through the year. Elective for Juniors and Seniors. Each term may be elected independently. Not to be offered in 1909–10. *Tu., Fri., Sat., at 10.20.*

13, 14, 15. *Petronius, Pliny the Younger, Martial*

Professor HARKNESS.

One hour. Through the year. Elective for Juniors, Seniors, and Graduates. *Fri. at 2.20.*

[16, 17, 18. *Epigraphy*]

Professor HARKNESS.

Two hours. Through the year. Elective for Graduates and approved Undergraduates. Not offered in 1908–9.

[22, 23, 24. *Latin Composition*]

Professor GREENE.

One hour. Through the year. Elective for Sophomores, Juniors, and Seniors. Not offered in 1908–9.

25, 26, 27. *Seminary in Latin*

Subject for 1908–9: Studies in paleography and in textual criticism. Reading from the poetry of the Empire. Gudeman's *Latin Literature of the Empire,* vol. I. *Professors* HARKNESS *and* GREENE.

Two hours. Through the year. Elective for Graduates.

28, 29. *Roman Life*

The private and public life of the Romans. Intended to give a comprehensive view of the civilization of Rome. Study based on the monuments and literature. Lectures, supplemented by reading and reports. No knowledge of Latin required. A continuation of Greek 33, the three terms together constituting the course called the History of Greek and Roman Life and Institutions. *Professor* GREENE.

Three hours. Second and third terms. Elective for Freshmen and Sophomores. Not to be offered in 1909–10.

[30. *Roman Literature*]

A brief history of Roman literature. Some of the most important and characteristic works studied in English translations. No knowledge of Latin required. Follows Greek 34 and is continued in the third term by Indo-European Philology 1. *Professor* HARKNESS.

Three hours. Second term. Elective for Freshmen and Sophomores. Not offered in 1908–9.

[31, 32, 33. *History of the Roman Empire*]

First term, the Early Empire. Second term, the Age of the Antonines. Third term, the Age of Constantine. *Professor* GREENE.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. Each term may be elected independently. Not offered in 1908–9.

XXI. ROMANCE LANGUAGES AND LITERATURES

COURTNEY LANGDON, A.B., *Professor of the Romance Languages and Literatures*

ALBERT BUSHNELL JOHNSON, A.M., *Associate Professor of the Romance Languages*

ALBERT SWIFT MORSE, A.M., *Assistant Professor of the Romance Languages*

CHARLES HERMAN HUNKINS,† A.B., *Instructor in French*

ALPHONSE MARIN LA MESLÉE, B. ès L., A.M., *Instructor in French*

BENJAMIN LOUIS ANTOINE HÉNIN, B. ès L., LL.B., *Assistant in French*

1. *Elementary Course*

Grammar, composition, dictation, conversation; translation of selections from modern authors into idiomatic English. *Professor* MORSE *and Mr.* LA MESLÉE.

Three hours. Through the year. Required of all students who did not present French for admission. *1st div. Tu., Th., Fri., at 8; 2d div. Tu., Wed., Sat., at 9.20; 3d div. Mon., Tu., Th., at 2.20.*

2, 3, 4. *Intermediate Course*

Reading of modern and classical authors. Review of grammar; composition and conversation based upon the texts read; dictation. *Professors* JOHNSON *and* MORSE, *Mr.* LA MESLÉE.

Three hours. Through the year. Required of all students who presented elementary French for admission. Elective for students who have credit for 1. *1st div. Wed., Fri., Sat., at 11.20; 2d div. Tu., Th., Fri., at 8; 3d div. Tu., Fri., Sat., at 10.20; 4th div. Tu., Th., Fri., at 3.20; 5th div. Mon., Th., Fri., at 9.20.*

5, 6, 7. *French Language and Literature*

An introduction to classical and modern French literature; composition, conversation based on the texts read; dictation. *Mr.* LA MESLÉE.

† On leave of absence during the academic year 1908–9.

Three hours. Through the year. Elective for students who presented advanced French for admission. *Mon., Tu., Th., at 11.20.*

[8, 9, 10. *French Literature, exclusive of the Drama, from 1800 to 1850*]

Chateaubriand, Hugo, Lamartine, De Musset, De Vigny, Balzac, George Sand, and Gautier; abstracts (in French) of works read outside the class; sight reading a prominent feature. *Professor* Johnson.

Three hours. Through the year. Elective for students who have credit for 2, 3, 4 or 5, 6, 7. *Mon., Tu., Th., at 11.20.* Not offered in 1908–9.

11, 12, 13. *French Literature, exclusive of the Drama, since 1850*

Flaubert, the Goncourts, Daudet, Zola, Taine, Loti, and others; abstracts (in French) of works read outside the class; sight reading a prominent feature. *Professor* Johnson.

Three hours. Through the year. Elective for students who have credit for 2, 3, 4 or 5, 6, 7. *Mon., Tu., Th., at 11.20.*

14. *Composition*

Practice in writing French. Most appropriately taken in connection with 5, 6, 7; 8, 9, 10; or 11, 12, 13. *Mr.* Hénin.

One hour. Through the year. Elective for students who have taken 2, 3, 4, or are taking 5, 6, 7. *Fri. at 2.20.*

17, 18, 19. *Old French*

The elements of Romance philology and an introduction to the literature of the Middle Ages in France. *Professor* Morse.

Three hours. One session weekly. Through the year. Elective for approved Seniors and Graduates. *Mon., Tu., Th., at 11.20.*

[20, 21, 22. *French Literature, exclusive of the Drama, from 1600 to 1800*]

Pascal, Madame de La Fayette, La Fontaine, Boileau, Bossuet, Madame de Sévigné, Saint-Simon, Le Sage, Voltaire, Rousseau. *Professor* Johnson.

Three hours. Through the year. Elective for students who have credit for 10 or 13. Not offered in 1908–9.

23, 24, 25. *The French Drama*

A two-year course covering the history of the French drama. The classical school from Corneille to Beaumarchais and the romantic

and realistic schools from Hugo to Rostand will be taken up in alternate years. Lectures in French. *Professor* LANGDON.

Three hours. Through the year. Elective for students who have credit for 7, 10, or 13. *Tu., Fri., Sat., at 10.20.*

[50. *Molière in English*]

A study of Molière's plays, by means of English translations, in the light of the French civilization of the seventeenth century. *Professor* LANGDON.

Three hours. First term. Elective for Sophomores and Juniors who also elect German 50 and English 50. Not offered in 1908–9.

26, 27, 28. *Modern Italian*

Grammar, composition, conversation, and rapid translation of modern authors. *Professor* MORSE.

Three hours. Through the year. Elective for Juniors and Seniors, and for Sophomores not electing more than one other modern foreign language. *Mon., Th., Fri., at 9.20.*

[29, 30, 31. *Italian Literature from 1321 to 1800*]

Selections from Petrarch, Sacchetti, Tasso, Macchiavelli, and Goldoni, with a brief survey of the life and history of the times. *Professor* MORSE.

Three hours. Through the year. Elective for students who have credit for 26, 27, 28. Not offered in 1908–9.

32, 33, 34. *Classical Italian*

Selections from Dante, Petrarch, Ariosto, and Tasso. *Professor* LANGDON.

Three hours. Through the year. Elective for students who have credit for 26, 27, 28.

35, 36, 37. *Dante in English*

A study of the whole of the *Divina Commedia* in English, in the light of modern thought and in connection with other great world-poems. An introduction to a study of comparative literature by means of the best available translations. *Professor* LANGDON.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 11.20.*

38, 39, 40. *Modern Spanish*

Grammar, conversation, composition, writing from dictation, and rapid reading. *Professor* JOHNSON.

Three hours. Through the year. Elective for Juniors, and for Sophomores not electing more than one other modern foreign language. *Tu., Fri., Sat., at 10.20.*

41, 42, 43. *Spanish Language and Literature*

Selected works of classical and modern authors; composition; conversation. *Professor* JOHNSON.

Three hours. Through the year. Elective for students who have credit for 38, 39, 40. *Mon., Wed., Th., at 10.20.*

XXII. SOCIAL AND POLITICAL SCIENCE‡

†GEORGE GRAFTON WILSON, PH.D., *Professor of Social and Political Science*

JAMES QUAYLE DEALEY, PH.D., *Professor of Social and Political Science*

LESTER FRANK WARD, A.M., LL.D., *Professor of Sociology*

SAMUEL CHILES MITCHELL, PH.D., D.D., LL.D., *Lecturer in Social and Political Science.*

POLITICAL SCIENCE

1. *Political Science, elementary*

Affords a general outline of the subject, and serves as an introduction to the more extended and special courses which follow. *Professor* DEALEY.

Three hours. Third term. Sophomore, Junior, or Senior year. Required of candidates for the degree of Bachelor of Arts; elective for others who have credit for Social Science 1 and Economics 1. *1st div. Tu., Fri., Sat., at 10.20; 2d div. Mon., Wed., Fri., at 12.20.*

13. *The State*§

The origin, forms, development, functions, and institutions of the state. *Professor* DEALEY. [This year *Dr.* MITCHELL.]

Three hours. First term. Followed in the second term by 8. Elective for Juniors, Seniors, and Graduates. *Mon., Th., Fri., at 9.20.*

† On leave of absence during the academic year 1908-9.

‡ The courses in this department other than 1 are open only to those students who have credit for Social Science 1, Economics 1, and Political Science 1, which together constitute an introduction to the advanced work of the departments of Social and Political Science and Economics.

§ Courses 6, 7, 9-15 are primarily for Graduates, and may be elected by those Undergraduates only who are approved by the department. These courses are given according to the needs of qualified applicants.

8. *Constitutional Law*

The principles and development of constitutional law, with special reference to the Constitution of the United States. *Professor* DEALEY.

Three hours. Second term. Followed in the third term by 2. Elective for Juniors, Seniors, and Graduates. *Mon., Th., Fri., at 9.20.*

2. *International Relations*

International law, diplomacy, and world-politics. *Professor* WILSON. [This year *Dr.* MITCHELL.]

Three hours. Third term. Preceded by 8. Elective for Juniors, Seniors, and Graduates. *Mon., Th., Fri., at 9.20.*

3, 4. *American Government*‡

First term, constitution, organization, powers, and methods of the national system of government. Second term, organization and functions of the states and cities of the United States. Followed by 5 in the third term. *Professor* DEALEY. [This year *Dr.* MITCHELL.]

Three hours. First and second terms. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Th., at 10.20.*

5. *Comparative Study of Constitutions*‡

The constitutions of Germany, France, Great Britain, and Switzerland especially considered. *Professor* DEALEY. [This year *Dr.* MITCHELL.]

Three hours. Third term. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Th., at 10.20.*

6. *Roman Law*§

The influence of Roman law on ancient and modern political institutions. *Professor* WILSON.

Three hours. One term. Offered if applied for by Graduates.

7. *Jurisprudence*§

The fundamental principles of law and legal relations. *Professor* WILSON.

Three hours. One term. Offered if applied for by Graduates.

‡ Courses 3, 4, and 5 form a single course continuous through the year.

§ Courses 6, 7, 9–15 are primarily for Graduates, and may be elected by those Undergraduates only who are approved by the department. These courses are given according to the needs of qualified applicants.

9. *The Latin-American Republics*‡

The government and social conditions of the Latin-American Republics. *Professor* DEALEY.

Three hours. One term. Offered if applied for by Graduates.

10. *Political Parties*‡

The development of political parties in the United States and Europe. *Professor* WILSON.

Three hours. One term. Offered if applied for by Graduates.

11. *Administration*‡

The principles and the chief national systems of administration. *Professor* WILSON.

Three hours. One term. Offered if applied for by Graduates.

12. *Administration (continued)*‡

Local and colonial administration. *Professor* WILSON.

Three hours. One term. Offered if applied for by Graduates.

14. *Development of Political Theory*‡

The growth of important political ideas traced from Plato to the present time, with emphasis on the evolution of democracy. *Professor* DEALEY.

Three hours. One term. Offered if applied for by Graduates.

15. *Current Political Theory and Practice*‡

A seminary course. Intended to train students in methods of estimating the value and significance of recent publications on political topics, and the changes consequent upon current political development. *Professors* WILSON *and* DEALEY.

One hour. Through the year. Elective for Graduates.

20, 21, 22. *Investigation of Special Topics*

Intended to train the student in methods of gathering, handling, and presenting data in the study of social and political problems. In connection with this course, work in comparative legislation may be taken under the direction of the Legislative Reference Bureau of the State Library. During this year a special investigation course on

‡ Courses 6, 7, 9–15 are primarily for Graduates, and may be elected by those Undergraduates only who are approved by the department. These courses are given according to the needs of qualified applicants.

Municipal Conditions and Social Welfare is given by Carol Aronovici, Head of the Union Settlement. Laboratory methods. *Professors* WILSON, DEALEY, *and* KIRK.

Three hours. Six hours of attendance. Through the year. Elective for Graduates and for approved Juniors and Seniors.

SOCIAL SCIENCE

1. *Social Science, elementary*

Affords a general outline of the subject, and serves as an introduction to the more extended and special courses which follow. *Professor* DEALEY.

Three hours. First term. Sophomore, Junior, or Senior year. Must be followed by Economics 1 and Political Science 1. Required of candidates for the degree of Bachelor of Arts; elective for others. *1st div. Tu., Fri., Sat., at 10.20; 2d div. Mon., Wed., Fri., at 12.20.*

2. *Social Institutions, Conditions, and Problems*

Historical development of domestic, religious, and political institutions; study of such social problems as charity, crime, intemperance, marriage and divorce, etc. *Professor* DEALEY.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 11.20.*

3. *Origin and Development of Society*‡

The formation of human institutions and their subsequent modifications. *Professor* WARD.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 12.20.*

4. *Social Philosophy*‡

The relation of sociology to other sciences, especially its psychic aspects, and the interpretation of social phenomena. *Professor* WARD.

Three hours. First and second terms. Elective for Seniors and Graduates. *Wed., Fri., Sat., at 11.20.*

5. *Application of Sociological Principles*‡

The utility of sociology as the basis of legislation and of the social art. The improvement of society through conscious effort. *Professor* WARD.

‡ Course 3 deals with the subject chiefly from the historical standpoint. Course 4 deals mainly with the principles and theory of sociology. Undergraduates should not elect both of these courses in the same year, and 3 should precede 4. Course 5 may properly follow either of these.

Three hours. Third term. Elective for Seniors and Graduates. *Wed., Fri., Sat., at 11.20.*

[6. *Sociological Aspects of Education*]‡

The social importance of intellectual development and of the diffusion of knowledge. *Professor* WARD.

Three hours. Through the year. Elective for Graduates. Not offered in 1908–9.

10. *Sociological Theories of the Nineteenth Century and their Significance*‡

A review of modern sociological thought in Europe and America, and its influence on the life and institutions of society. *Professor* WARD.

Three hours. Through the year. Elective for Graduates. Alternates with 6. *Tu., Fri., 4.30–6.*

8. *Demography*‡

Dispersion of races; social study of race characteristics; emigration, immigration, etc. *Professor* WILSON.

Three hours. One term. Offered if applied for by Graduates.

9. *Development of Social Theory*‡

Traces important theories, ancient and modern, in regard to social conditions and development. *Professor* DEALEY.

Three hours. One term. Offered if applied for by Graduates.

7. *Current Social Theory and Practice*‡

A seminary course. Subject for 1908–9: Social Conditions in the Southern States. *Professors* WILSON *and* DEALEY. [This year *Dr.* MITCHELL.]

One hour. Through the year. Elective for Graduates. *Wed. at 4.45.*

PHYSICAL TRAINING

FREDERICK WILLIAM MARVEL, PH.B., *Professor of Physical Training*

From the close of the Thanksgiving recess to the end of the second term, all first and second year students are required to attend gymnasium exercises three times a week as follows:

FRESHMEN. *1st div. Tu., Fri., Sat., at 10.20; 2d div. Mon., Tu., Th., at 4.20.*

‡ Courses 6–10 are primarily for Graduates, and may be elected by those Undergraduates only who are approved by the department. These courses are given according to the needs of qualified applicants.

Sophomores. *1st div. Mon., Wed., Th., at 10.20; 2d div. Tu., Th., Fri., at 3.20.*

A voluntary class for Juniors and Seniors will be held on *Mon., Tu., Th., Fri., at 5.10.* Classes in heavy gymnastics, under the direction of a special instructor, are held four afternoons a week. Classes in wrestling, under the direction of a special instructor, are held two afternoons a week. Instruction in swimming, under the direction of a special instructor, is given by appointment.

MUSIC

Hamilton Crawford Macdougall, Mus.D., *Lecturer in Music*

1, 2, 3. *The Evolution of Modern Music*

A general course, taking up modern composers and their works from Haydn to Wagner and Richard Strauss. Lectures, illustrations on the piano, assigned readings, and papers. Designed to give power of appreciation and interpretation with the minimum of technical detail.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. No previous knowledge of music required. *Mon., Th., at 11.20,* and a third hour at the pleasure of the instructor.

TABLE OF ELECTIVE COURSES, 1908–9‡

FIRST TERM

Art
1 Jr. Sr.
4 Jr. Sr.
9 Gr.
10 Fr. So. Jr. Sr.
11 So. Jr. Sr.

Astronomy
1 Jr. Sr.
4 Jr. Sr.
10 Gr. Sr.
13 Gr. Sr.

Biblical Literature
1 Jr. Sr. Gr.
2 Sr. Gr.
3 Gr. Sr.
4 Gr.
5 Sr. Gr.
6 Sr. Gr.
10 Jr. Sr. Gr.
13 So. Jr. Sr. Gr.
15 Gr. Sr. Jr.
16 Gr.

Biology
1 Fr. So. Jr. Sr.
2 So. Jr. Sr.
4 Jr. Sr. Gr.
7 So. Jr. Sr.
9 Jr. Sr.
10 Jr. Sr.
11 Gr.
12 Jr. Sr. Gr.
13 Gr.
14 Gr.
15 Gr.
19 Fr. So. Jr. Sr.
31 Gr.
32 Gr.

Botany
1 Fr. So. Jr. Sr.
3 So. Jr. Sr. Gr.
6 Gr. Sr. Jr.

Chemistry
1 Fr. So. Jr. Sr.
4 So. Jr. Sr.
7 Jr. Sr. Gr.
10 Jr. Sr. Gr.
15 Gr.
18 Jr. Sr. Gr.
24 Jr. Sr. Gr.
27 Jr. Sr. Gr.
30 Gr.
33 Gr. Sr.
36 Gr. Sr.

Civil Engineering
4 So. Jr. Sr.
11 Jr. Sr.
16 Jr. Sr.
23 Sr.
25 Sr.
26 Sr.

Economics
2 Jr. Sr.
4 Jr. Sr. Gr.
5 Sr. Gr.
6 Jr. Sr. Gr.
10 Jr. Sr. Gr.
13 Jr. Sr.
20 Jr. Sr. Gr.

Education
1 Jr. Sr. Gr.
4 Sr. Gr.
7 Gr.
10 Gr.
13 Gr.

Education
16 Gr.

Electrical Engineering
1 So. Jr. Sr.
4 Sr.

English
2 So.
4 Jr. Sr.
5 Jr. Sr.
7 So. Jr. Sr.
8 Jr. Sr.
9 Jr. Sr. Gr.
10 Jr. Sr. Gr.
11 So.
13 Jr. Sr.
15 Jr. Sr.
17 Jr. Sr.
19 So. Jr. Sr.
20 So. Jr. Sr.
23 Gr. Sr.

French
2 Fr. So.
5 Fr. So. Jr. Sr.
11 So. Jr. Sr.
14 So. Jr. Sr.
17 Sr. Gr.
23 So. Jr. Sr.

Geology
3 So. Jr. Sr.
6 Jr. Sr. Gr.
1 So. Jr. Sr.
4 Jr. Sr. Gr.
9 Jr. Sr. Gr.
12 Jr. Sr.
13 Gr. Sr.
14 Gr. Sr.

‡ Fr., So., Jr., Sr., Gr., indicate that the courses after which these abbreviations stand are open to Freshmen, Sophomores, Juniors, Seniors, or Graduate students, respectively.

German
3 So. Jr. Sr.
6 Fr. So. Jr. Sr.
7 Fr. So. Jr. Sr.
26 So. Jr. Sr.
10 Jr. Sr.
12 So. Jr. Sr.
16 Gr.
36 Sr. Gr.

Greek
A Fr. So. Jr. Sr.
3 Fr. So. Jr. Sr.
4 So.
11 Jr. Sr.
23 Gr. Sr.
30 Jr. Sr. Gr.
33 Fr. So.

History
2 Jr. Sr. Gr.
4 Jr. Sr. Gr.
11 Jr. Sr. Gr.
14 Gr.
19 Jr. Sr. Gr.
22 Gr. Sr.
27 Jr. Sr. Gr.

Indo-European Philology
7 Jr. Sr. Gr.

Italian
26 So. Jr. Sr.
32 Jr. Sr.
35 Jr. Sr. Gr.

Latin
1 Fr. So. Jr. Sr.
4 So. Jr. Sr.
10 Jr. Sr.
13 Jr. Sr. Gr.
25 Gr.

Mathematics
4 So. Jr. Sr.
6 So. Jr. Sr.
9 Jr. Sr.
15 So. Jr. Sr.
22 Gr. Sr.
23 Gr.
25 Gr. Sr.
26 Gr. Sr.

Mechanical Drawing
2 Fr. So. Jr. Sr.
4 So. Jr. Sr.

Mechanical Engineering
1–6 So. Jr. Sr.
9 Jr. Sr.
12 Sr.
16 Jr. Sr.
19 Jr. Sr.
22 Sr.
23 Sr.

Mechanics
1 So. Jr. Sr.
2 Jr. Sr.
4 Sr. Gr.

Music
1 So. Jr. Sr.

Philosophy
1 So. Jr. Sr.
2 Jr. Sr.
3 Sr. Gr.
4 Jr. Sr. Gr.
5 Sr. Gr.
6 Jr. Sr. Gr.
9 Jr. Sr. Gr.
13 Gr.
16 Sr. Gr.

Physics
1 So. Jr. Sr.
4 So. Jr. Sr.
7 Jr. Sr.
8 Sr. Gr.
11 Gr. Sr.
14 Sr. Gr.
17 Sr. Gr.
20 Jr. Sr. Gr.
23 Jr. Sr. Gr.
24 Jr. Sr. Gr.

Political Science
13 Jr. Sr. Gr.
3 Jr. Sr. Gr.
6 Gr.
7 Gr.
9 Gr.
10 Gr.
11 Gr.
12 Gr.
14 Gr.
15 Gr.
20 Gr. Sr. Jr.

Sanskrit
7 Jr. Sr. Gr.

Social Science
1 So. Jr. Sr.
2 Jr. Sr. Gr.
3 Jr. Sr. Gr.
4 Sr. Gr.
10 Gr.
7 Gr.
8 Gr.
9 Gr.

Spanish
38 So. Jr.
41 Jr. Sr.

SECOND TERM

Art
2 Jr. Sr.
5 Jr. Sr.
7 Gr.
10 Fr. So. Jr. Sr.
11 So. Jr. Sr.

Astronomy
2 Jr. Sr.
5 Jr. Sr.
11 Gr. Sr.
14 Gr. Sr.

Biblical Literature
1 Jr. Sr. Gr.

Biblical Literature
2 Sr. Gr.
3 Gr. Sr.
4 Gr.
5 Sr. Gr.
6 Sr. Gr.
11 Jr. Sr. Gr.
17 So. Jr. Sr. Gr.
15 Gr. Sr. Jr.
16 Gr.

Biology
1 Fr. So. Jr. Sr.
2 So. Jr. Sr.
5 Jr. Sr. Gr.
7 So. Jr. Sr.
9 Jr. Sr.
10 Jr. Sr.
11 Gr.
12 Jr. Sr. Gr.
13 Gr.
14 Gr.
15 Gr.
31 Gr.
32 Gr.

Botany
1 Fr. So. Jr. Sr.
4 So. Jr. Sr. Gr.
6 Gr. Sr. Jr.

Chemistry
2 Fr. So. Jr. Sr.
5 So. Jr. Sr.
8 Jr. Sr. Gr.
11 Jr. Sr. Gr.
16 Gr.
19 Jr. Sr. Gr.
25 Jr. Sr. Gr.
28 Jr. Sr. Gr.
31 Gr.
34 Gr. Sr.
37 Gr. Sr.

Civil Engineering
5 So. Jr. Sr.
7 Jr. Sr.

Civil Engineering
8 So. Jr. Sr.
9 So. Jr. Sr.
12 Jr. Sr.
14 Jr. Sr.
27 Sr.
29 Sr.
30 Sr.
31 Sr.

Economics
1 So. Jr. Sr.
2 Jr. Sr.
4 Jr. Sr. Gr.
5 Sr. Gr.
7 Jr. Sr. Gr.
11 Jr. Sr. Gr.
13 Jr. Sr.
21 Jr. Sr. Gr.

Education
2 Jr. Sr. Gr.
5 Sr. Gr.
8 Gr.
11 Gr.
14 Gr.
17 Gr.

Electrical Engineering
2 So. Jr. Sr.
5 Sr.
11 Jr. Sr.

English
2 So.
4 Jr. Sr.
6 Jr. Sr.
7 So. Jr. Sr.
8 Jr. Sr.
9 Jr. Sr. Gr.
10 Jr. Sr. Gr.
11 So.
13 Jr. Sr.
15 Jr. Sr.
17 Jr. Sr.
19 So. Jr. Sr.
20 So Jr. Sr.

English
23 Gr. Sr.

French
3 Fr. So.
6 Fr. So. Jr. Sr.
12 So. Jr. Sr.
18 Sr. Gr.
24 So. Jr. Sr.
14 So. Jr. Sr.

Geology
3 So. Jr. Sr.
6 Jr. Sr. Gr.
1 So. Jr. Sr.
4 Jr. Sr. Gr.
8 Jr. Sr. Gr.
12 Jr. Sr.
13 Gr. Sr.
14 Gr. Sr.

German
4 So. Jr. Sr.
6 Fr. So. Jr. Sr.
7 Fr. So. Jr. Sr.
27 So. Jr. Sr.
10 Jr. Sr.
13 So. Jr. Sr.
16 Gr.
36 Sr. Gr.

Greek
B Fr. So. Jr. Sr.
1 Fr. So. Jr. Sr.
35 So.
12 Jr. Sr.
19 So. Jr. Sr.
21 So. Jr. Sr.
24 Gr. Sr.
31 Jr. Sr. Gr.

History
3 Jr. Sr. Gr.
5 Jr. Sr. Gr.
12 Jr. Sr. Gr.
15 Gr.
20 Jr. Sr. Gr.
23 Gr. Sr.

History
28 Jr. Sr. Gr.
Indo-European Philo-
8 Jr. Sr. Gr. [*logy*
Italian
27 So. Jr. Sr.
33 Jr. Sr.
36 Jr. Sr. Gr.
Latin
2 Fr. So. Jr. Sr.
5 So. Jr. Sr.
11 Jr. Sr.
14 Jr. Sr. Gr.
26 Gr.
28 Fr. So.
Mathematics
4 So. Jr. Sr.
7 So. Jr. Sr.
10 Jr. Sr.
12 So. Jr. Sr.
22 Gr. Sr.
23 Gr.
25 Gr. Sr.
26 Gr. Sr.
Mechanical Drawing
3 Fr. So. Jr. Sr.
5 So. Jr. Sr.
8 Fr. So. Jr. Sr.
Mechanical Engineering
1-6 So. Jr. Sr.
Mechanical Engineering
10 Jr. Sr.
13 Sr.
17 Jr. Sr.
20 Jr. Sr.
22 Sr.
24 Sr.
Mechanics
1 So. Jr. Sr.
2 Jr. Sr.
4 Sr. Gr.
Music
2 So. Jr. Sr.
Philosophy
1 So. Jr. Sr.
2 Jr. Sr.
3 Sr. Gr.
4 Jr. Sr. Gr.
5 Sr. Gr.
7 Jr. Sr. Gr.
10 Jr. Sr. Gr.
14 Gr.
16 Sr. Gr.
Physics
2 So. Jr. Sr.
5 So. Jr. Sr.
7 Jr. Sr.
9 Sr. Gr.
12 Gr. Sr.
15 Sr. Gr.
Physics
18 Sr. Gr.
21 Jr. Sr. Gr.
23 Jr. Sr. Gr.
24 Jr. Sr. Gr.
Political Science
8 Jr. Sr. Gr.
4 Jr. Sr. Gr.
6 Gr.
7 Gr.
9 Gr.
10 Gr.
11 Gr.
12 Gr.
14 Gr.
15 Gr.
21 Gr. Sr. Jr.
Sanskrit
8 Jr. Sr. Gr.
Social Science
2 Jr. Sr. Gr.
3 Jr. Sr. Gr.
4 Sr. Gr.
10 Gr.
7 Gr.
8 Gr.
9 Gr.
Spanish
39 So. Jr.
42 Jr. Sr.

THIRD TERM

Art
3 Jr. Sr.
6 Jr. Sr.
7 Gr.
10 Fr. So. Jr. Sr.
11 So. Jr. Sr.
Astronomy
3 Jr. Sr.
12 Gr. Sr.
15 Gr. Sr.
Biblical Literature
1 Jr. Sr. Gr.
Biblical Literature
2 Sr. Gr.
3 Gr. Sr.
4 Gr.
5 Sr. Gr.
6 Sr. Gr.
12 Jr. Sr. Gr.
18 So. Jr. Sr. Gr.
15 Gr. Sr. Jr.
16 Gr.
Biology
1 Fr. So. Jr. Sr.
Biology
2 So. Jr. Sr.
3 So. Jr. Sr.
8 So. Jr. Sr.
33 So. Jr. Sr.
9 Jr. Sr.
10 Jr. Sr.
11 Gr.
12 Jr. Sr. Gr.
13 Gr.
14 Gr.
15 Gr.

Biology
17 Jr. Sr.
18 Fr. So. Jr. Sr.
31 Gr.
32 Gr.

Botany
1 Fr. So. Jr. Sr.
5 So. Jr. Sr. Gr.
6 Gr. Sr. Jr.
7 Fr. So. Jr. Sr.

Chemistry
3 Fr. So. Jr. Sr.
6 So. Jr. Sr.
9 Jr. Sr. Gr.
12 Jr. Sr. Gr.
13 Sr. Gr.
14 Sr. Gr.
17 Gr.
20 Jr. Sr. Gr.
26 Jr. Sr. Gr.
29 Jr. Sr. Gr.
32 Gr.
35 Gr. Sr.
38 Gr. Sr.

Civil Engineering
6 So. Jr. Sr.
10 Jr. Sr.
13 Jr. Sr.
15 Jr. Sr.
17 Sr.
18 Sr.
19 So. Jr. Sr.
24 Sr.
28 Sr.
34 Sr.
36 Sr.

Economics
2 Jr. Sr.
4 Jr. Sr. Gr.
5 Sr. Gr.
9 Jr. Sr. Gr.
12 Jr. Sr. Gr.
13 Jr. Sr.

Economics
22 Jr. Sr. Gr.

Education
3 Jr. Sr. Gr.
6 Sr. Gr.
9 Gr.
12 Gr.
15 Gr.
18 Gr.

Electrical Engineering
3 So. Jr. Sr.
6 Sr.
12 Jr. Sr.

English
2 So.
4 Jr. Sr.
6 Jr. Sr.
7 So. Jr. Sr.
8 Jr. Sr.
9 Jr. Sr. Gr.
10 Jr. Sr. Gr
11 So.
13 Jr. Sr.
15 Jr. Sr.
17 Jr. Sr.
19 So. Jr. Sr.
20 So. Jr. Sr.
23 Gr. Sr.

French
4 Fr. So.
7 Fr. So. Jr. Sr.
13 So. Jr. Sr.
14 So. Jr. Sr.
19 Sr. Gr.
25 So. Jr. Sr.

Geology
3 So. Jr. Sr.
6 Jr. Sr. Gr.
1 So. Jr. Sr.
11 Jr. Sr. Gr.
12 Jr. Sr.
13 Gr. Sr.
14 Gr. Sr.

German
5 So. Jr. Sr.
6 Fr. So. Jr. Sr.
7 Fr. So. Jr. Sr.
28 So. Jr. Sr.
10 Jr. Sr.
14 So. Jr. Sr.
16 Gr.
36 Sr. Gr.

Greek
C Fr. So. Jr. Sr.
2 Fr. So. Jr. Sr.
6 So.
10 Jr. Sr.
20 So. Jr. Sr.
22 So. Jr. Sr.
25 Gr. Sr.
32 Jr. Sr. Gr.

History
6 Jr. Sr. Gr.
7 Jr. Sr. Gr.
13 Jr. Sr. Gr.
16 Gr.
21 Jr. Sr. Gr.
24 Gr. Sr.
29 Jr. Sr. Gr.

Indo-European Philo-
9 Jr. Sr. Gr. [*logy*
4 Gr. Sr.

Italian
28 So. Jr. Sr.
34 Jr. Sr.
37 Jr. Sr. Gr.

Latin
3 Fr. So. Jr. Sr.
6 So. Jr. Sr.
12 Jr. Sr.
15 Jr. Sr. Gr.
27 Gr.
29 Fr. So.

Mathematics
5 So. Jr. Sr.
8 So. Jr. Sr.

Mathematics
11 Jr. Sr.
13 So. Jr. Sr.
22 Gr. Sr.
23 Gr.
25 Gr. Sr.
26 Gr. Sr.
Mechanical Drawing
3 Fr. So. Jr. Sr.
6 So. Jr. Sr.
8 Fr. So. Jr. Sr.
Mechanical Engineering
1-6 So. Jr. Sr.
8 So. Jr. Sr.
11 Jr. Sr.
14 Sr.
15 Sr.
18 Jr. Sr.
21 Jr. Sr.
Mechanics
1 So. Jr. Sr.
4 Sr. Gr.
Music
3 So. Jr. Sr.
Philosophy
1 So. Jr. Sr.
2 Jr. Sr.
3 Sr. Gr.
4 Jr. Sr. Gr.
5 Sr. Gr.
8 Jr. Sr. Gr.
11 Jr. Sr.
12 Sr. Gr.
15 Gr.
16 Sr. Gr.
Physics
3 So. Jr. Sr.
6 So. Jr. Sr.
7 Jr. Sr.
10 Sr. Gr.
13 Gr. Sr.
16 Sr. Gr.
19 Sr. Gr.
22 Jr. Sr. Gr.
23 Jr. Sr. Gr.
24 Jr. Sr. Gr.
Political Science
1 So. Jr. Sr.
Political Science
2 Jr. Sr. Gr.
5 Jr. Sr. Gr.
6 Gr.
7 Gr.
9 Gr.
10 Gr.
11 Gr.
12 Gr.
14 Gr.
15 Gr.
22 Gr. Sr. Jr.
Sanskrit
9 Jr. Sr. Gr.
Social Science
2 Jr. Sr. Gr.
3 Jr. Sr. Gr.
5 Sr. Gr.
10 Gr.
7 Gr.
8 Gr.
9 Gr.
Spanish
40 So. Jr.
43 Jr. Sr.

LIBRARIES, LABORATORIES, AND MUSEUMS

LIBRARIES

THE libraries of the University contain one hundred and seventy-five thousand volumes. They comprise the MAIN LIBRARY, which occupies the Library Building (the gift of John Carter Brown, of the class of 1816); the JOHN CARTER BROWN LIBRARY, with its own building, recently given to the University; and the DEPARTMENT LIBRARIES, in the various laboratories and seminary rooms.

THE MAIN LIBRARY is constantly increased with reference to the different courses of study, while at the same time there is kept in view the development of a library of general culture. It includes three special libraries. The first is the Harris Collection of American Poetry, founded by Albert G. Greene, of the class of 1820, extended by C. Fiske Harris, and bequeathed to the University by the Hon. Henry B. Anthony, of the class of 1833, which numbers over seven thousand volumes, and is perhaps the largest collection in the world devoted to the subject; a fund, given by Samuel C. Eastman, of the class of 1857, in memory of the founder of the collection, provides for its regular increase. The second is the Rider Collection of Rhode Island History, formed by Sidney S. Rider and presented to the University by Marsden J. Perry, a collection which has no superior in extent and rarity of manuscript and printed material bearing on the history of the state. The third is the Wheaton Collection of International Law, given by William V. Kellen, of the class of 1872, in honor of Henry Wheaton, of the class of 1802. To all the books except the Harris and Rider Collections the students have free access.

The reading room contains the most important reference books, the books reserved by the departments for class use, the Select Library (a special collection of five hundred volumes of attractive reading) and the latest numbers of the standard periodicals, American and foreign. In this room are also the loan desk, where books are charged and returned, and the desk of the reference librarian, whose duty is to advise and assist students in their use of the library.

The library funds amount to eighty thousand dollars. Of this sum ten thousand dollars constitutes the Gammell Fund for the purchase of books relating to the history of the United States; ten thousand dollars, the Olney Fund for the purchase of plants and botanical books; ten thousand dollars, the Diman Memorial Fund for the purchase of books on medieval and modern history; and ten thousand dollars, the Banigan Fund for the purchase of books on medieval and church history. The remainder includes several smaller special funds and the Library Fund proper.

The following persons are entitled to the use of the Library without expense: the members of the Corporation and Faculty; other college officers; graduates residing in the state of Rhode Island; donors to the funds of the University to the amount of five hundred dollars, residing in the state of Rhode Island; graduate and undergraduate students; and any other persons to whom the Corporation or the Library Committee may from time to time grant the privilege.

The Library is open during term time from 9 a.m. to 11 p.m. on week days, and from 2 to 11 p.m. on Sundays; during vacations from 10 a.m. to 4 p.m. on week days.

THE JOHN CARTER BROWN LIBRARY, given to the University by the trustees under the provisions of the will of the late John Nicholas Brown, of the class of 1885, is a collection of nearly twenty thousand volumes relating to the history of North and South America during the colonial period. The larger part of the books, many of which are of great rarity and value, were printed before the year 1800 and contain the earliest published accounts of events connected with the discovery, exploration, and colonization of the Western Hemisphere. This collection, well known for many years as the most valuable private library of Americana in existence, was begun by John Carter Brown, of the class of 1816, and after his death was greatly enlarged by his widow and by his sons, the late John Nicholas and Harold Brown. The library occupies a building erected for it at the southeastern corner of the middle campus. It is open daily from 9 a.m. until 5 p.m.; the books may be consulted by all properly qualified students or investigators, upon application to the Librarian. In the main hall of the building are a number of cases in which are exhibited rare books, engravings, and manuscripts belonging to the collection.

DEPARTMENT LIBRARIES

The Germanic Department Library is contained in two rooms in Sayles Hall. It was purchased in Germany by the late Professor Alonzo Williams in the name of the principal donor, the Hon. Hezekiah Conant. The library now comprises over six thousand carefully selected volumes, including editions of all the important writers of German literature; a large collection of Germanic philology; the leading German literary and philological periodicals; many works upon German history, the history of German literature, and German law, art, paleography, and geography. The library is especially rich in works of the Middle High German period and in Goethe and Schiller literature. It possesses many bronzes, framed engravings, and volumes of plates which illustrate the subjects taught. The rooms are open from 9.20 a.m. to 12.30 p.m., from 2 to 6 p.m., and from 8 to 9.30 p.m.

The Classical Department Library is contained in the room in Sayles Hall occupied by the Albert Harkness Classical Seminary, named in honor of its founder, the late Professor Albert Harkness. It consists of fifteen hun-

dred volumes, purchased with funds contributed by friends of the University interested in classical studies, and contains the most important collections of Greek and Roman authors, besides commentaries, reference books, and similar aids. The seminary is made the center for advanced study and research in the classical languages and literatures. Though primarily intended for graduate students, the seminary is open to such undergraduates as are qualified to profit by its advantages. The room is open from 9.20 a.m. to 10 p.m.

The Romance Department Library is a collection of a thousand volumes for the use of advanced students in the Romance languages. It is contained in room No. 4, Sayles Hall. This room is open Tuesday, Wednesday, and Friday from 4 to 6.30 p.m., and from 7 to 9 p.m.; on Saturday from 11.30 a.m. to 1 p.m.

The Biblical Department Library is kept in room No. 4, Sayles Hall. It consists of a reference collection of one thousand volumes, including a valuable collection of Semitic books presented by Mr. Jacob Shartenberg of Pawtucket. A number of Semitic, Biblical, and general religious journals are kept on file. The room is open from 9.20 a.m. to 12 m., from 2 to 5 p.m., and from 7 to 9 p.m., except Wednesday and Saturday afternoons and Friday evenings.

The Biological Department Library is kept in Rhode Island Hall. It is a collection of about twenty-two hundred volumes and fifteen hundred pamphlets, to which additions are constantly made. More than fifty current periodicals bearing upon the work of the department are regularly received. The rooms are open from 9.20 a.m. to 4 p.m.

The Educational Department Library is contained in the seminary room of the department, in the Administration Building. The library contains over twelve hundred volumes, chiefly text-books of recent publication. The room is open to all students interested in education, and to teachers and friends of education in the city and state.

The Library of the Department of Economics is contained in the rooms of the Department in Sayles Hall. It comprises about five thousand volumes, to which additions are constantly made, and receives regularly about one hundred and twenty-five periodicals and papers bearing upon the work of the department. The rooms are open from 8 a.m. to 10 p.m.

The Women's College Library and Reading Room occupy two rooms in Pembroke Hall. The library comprises about two thousand volumes of standard literature, chosen with special regard to the courses offered, thus forming for students of the Women's College a convenient and valuable adjunct to the University Library.

Other Department Libraries. There are several other special collections of books for seminary and advanced laboratory work. The most important of

these belong to the departments of Astronomy, Botany, Chemistry, Engineering, English, Geology, History, Mathematics, Philosophy, Physics, and Social and Political Science.

OTHER PROVIDENCE LIBRARIES

There are also at the service of the students of the University the seven collections of books named below. These comprise, with the University Library, about half a million volumes, exclusive of pamphlets and manuscripts.

The Providence Public Library offers to all students of Brown University, upon the same conditions as to other residents of the city, the use of its carefully chosen collection, which comprises more than one hundred and thirty-six thousand volumes. It is situated at the corner of Washington and Greene streets. Its principal rooms are open regularly from 9 a.m. to 9 p.m.; on Sundays and Christmas from 2 to 9 p.m. Among its special departments may be mentioned the Harris Collection on Slavery and the Civil War; the Educational Study-room; the "Standard Library" of best literature; and the Reference Department. About seven hundred periodicals, serials, and annuals (of which about two hundred and seventy are the best known weeklies, monthlies, and quarterlies) are currently received. The library staff is glad to be consulted with respect to books relating to any of the departments of University study, and to prepare lists of references in connection with any of the special topics under consideration.

The Library of the Providence Athenaeum is a collection of general literature numbering seventy thousand volumes. The reading room receives upwards of two hundred papers and magazines, including New York, Boston, and Providence daily papers, and American, English, German, French, and Italian weeklies, magazines, and reviews. In bound sets of periodicals and in books on art this library is especially rich. Professors or teachers, non-residents of the city, may become annual subscribers on the payment of four dollars in advance, and any student of Brown University whose family does not reside in the city, or who may obtain the privilege from the Board of Directors, may become a subscriber for three months on the payment of one dollar. The annual subscription for residents is seven dollars and a half. The Athenaeum is open from 9 a.m. to 10 p.m. on week days.

The Library of the Rhode Island Historical Society is situated on Waterman Street, next door to the University Library Building. The Library of the Society comprises twenty thousand bound volumes and forty thousand valuable unbound volumes and pamphlets. Through the courtesy of the Society the collection is made accessible, free of charge, to members of the University. It offers special facilities for thorough research not only in all subjects relating to the history of Rhode Island, but also in genealogy, local history, and general American history. Its library has recently been enriched by a spe-

cial bequest of books on the English and American drama, and by a collection of works on early American travels and ethnology. The Library is open from 9 a.m. to 4 p.m. on week days.

The Annmary Brown Memorial, situated on Brown Street south of the University grounds, was founded by General Rush C. Hawkins, of New York, in memory of his wife, Annmary Brown, of Providence. The building contains a collection — one of the most complete in the world — of books from the first European presses. It contains also a notable collection of paintings by old masters and modern painters. The collection of books was made for the special purpose of showing the progress of printing with movable metal type through the first half century of its existence — from about 1450 to 1500. It includes 130 books from the possible 238 first presses set up in the cities, villages, and monasteries in Europe before the year 1501, and is fairly representative of countries. Among the books are many rare and interesting volumes. Incidentally there came into the collection many notable books adorned with woodcuts which show the earliest use of the woodcutter's art for book illustration.

The Library of the Rhode Island Medical Society is in the Providence Public Library Building, on Washington Street. It comprises twenty-two thousand volumes and numerous pamphlets upon medical science, including biology, physiology, physiological psychology, hygiene, and other subjects the study of which is pursued in the University. About two hundred medical periodicals are currently received. Arrangements are easily made whereby any student can without cost enjoy the privileges here offered. This collection is open daily from 9.30 a.m. to 5.30 p.m.

The State Law Library, a collection of thirty thousand volumes, may be consulted in the Providence County Court House, at the corner of Benefit and College streets, between the hours of 9 a.m. and 5 p.m. on week days, excepting on Saturdays, when it closes at 3 p.m. It is accessible to all students, and for certain lines of University study is invaluable. University students are requested to introduce themselves at the desk on their first visit to this library.

The State Library, located in the State House, is accessible to the public from 9 a.m. to 5 p.m.; on Saturdays from 9 a.m. to 12 m. This library contains a large collection of official documents of the United States and of the several states, a complete collection of the United States Patent Office Specifications, and general works pertaining to history and political science. The Legislative Reference Bureau conducted by the State Library directs the work of students who are investigating topics in comparative legislation.

LABORATORIES

The Ladd Astronomical Observatory is equipped with a Saegmuller-Brashear equatorial of twelve inches aperture, which is supplied with a filar micrometer, a spectroscope, and other attachments; four transit instruments, two of which can be used as zenith telescopes; a chronograph; three astronomical clocks; several sextants and chronometers; recording meteorological apparatus; and various minor instruments. The equipment is available for illustrating the general courses in astronomy and for practical use in the applied courses.

The Observatory furnishes constant time-signals to the Fire Department of the City of Providence, and to the Rhode Island Electric Protective Company, which distributes them to its patrons. Routine observations for determining clock errors, and for pressure, temperature, humidity, and precipitation, are made throughout the year. Special observations are also made as opportunity offers.

The Physical Laboratory, in which the courses offered by the Department of Physics are conducted, is in Wilson Hall, which was specially designed and constructed for this purpose. Twelve special laboratory rooms are available for experimental study. Brick piers support the instruments requiring great steadiness, and the magnetic rooms are as free as possible from the influence of iron and from other disturbances. Several rooms on the ground floor are devoted to a laboratory for electrical engineering. The Laboratory is supplied with apparatus both experimental and demonstrative, and additions are made as necessity requires. The department has a large assortment of historical and other photographs, lantern slides, and cage models illustrating the propositions in pure and applied physics.

The Chemical Laboratories are in Rogers Hall, which was erected expressly for the Department of Chemistry. The inorganic laboratory is supplied with tables and lockers furnishing accommodations for about two hundred and fifty students working by detachments. The organic laboratory is fitted with tables for about fifty students. Each table has arrangements for gas, high-pressure water-supply, etc. The library of the department is here.

The Geological Laboratories are in the basement of Sayles Hall. They include laboratories of general geology, geography, and mineralogy. The geographical laboratory is furnished with tables for twelve students, and with type-maps and models. The mineralogical laboratory is equipped with tables and apparatus for determinative blowpipe analysis of minerals, a high-grade petrographic microscope for microscopic analysis of rocks and minerals, and a detailed series of illustrative specimens. The region in which the University is situated offers in a small compass both simple and complex problems in field research in structural, paleontological, and stratigraphic geology. The library of the department contains full sets of government and state geological reports, together with general reference works and current periodicals.

The Biological Laboratories are in Rhode Island Hall. They consist of private rooms for the instructors, a laboratory for graduate students, a seminary room, a physiological laboratory, a laboratory for bacteriology and histology, a laboratory for neurology and embryology, and a large laboratory for elementary anatomy and the comparative anatomy of vertebrates and invertebrates. The large collection of zoölogical material and the anatomical and histological preparations of the Museum; the anatomical collection of the Rhode Island Medical Society; and rich material frequently contributed by the United States Fish Commission from the deep-sea dredging excursions, are always accessible to the students. Abundant living material is also readily available, since the laboratory is situated near the salt water and within a few miles of a floating laboratory on Narragansett Bay.

The Botanical Laboratories are in the basement of Maxcy Hall. The larger laboratory is used for the elementary courses, and the smaller for advanced work. They are equipped with the necessary simple and compound microscopes, paraffin baths, microtomes, freezing apparatus, incubator, sterilizer, chemicals, stains, reagents, etc., and a considerable amount of plant material preserved in alcohol, formalin, and other liquids, as well as dried. The Herbarium, in an adjoining room, is accessible to advanced students in forestry and medicinal and systematic botany. Many reference books and current magazines are kept in the department rooms, in addition to the principal collection in the University Library.

The Psychological Laboratory occupies rooms in Wilson Hall. It possesses apparatus for the study of sensations, the determination of discriminative sensibility, the measurement of the duration of mental processes, the detection of physiological accompaniments of changes in consciousness, the study of temperament, and research in other fields. This equipment is adapted for the illustration and demonstration of the main results of experimental work in psychology, and for carrying on original research.

The Mechanical Engineering Laboratories, library, and drafting room are situated in the Engineering Building. The laboratories are equipped with apparatus for the work of the courses in strength of materials, steam, gas, and hydraulic engineering, and metallography. They contain a 400,000-pound and a 50,000-pound Riehlé testing machine; a machine for testing full-sized timber and steel beams; a 50,000-inch-pound Olsen torsion testing machine; a machine for testing by repeated stresses; a Riehlé cement testing machine; a cross-compound condensing Corliss engine; various smaller engines, gas and gasoline engines, steam pumps, air compressors, injectors, and the necessary apparatus for testing them; a rotary fire pump, Venturi meters, weirs, and measuring tanks; apparatus for investigating the nature and structure of alloys; a photographic dark room; and the usual small apparatus necessary to the work of such laboratories.

The Mechanical Engineering Shops, situated in Rogers Hall, are equipped for purposes of instruction. The wood-working shop is provided with large and small lathes, circular and band saws, a buzz-planer, benches, and bench tools. The metal-working shop is provided with engine lathes, hand lathes, a planer, a shaper, milling machines, large and small vertical drills, a universal grinder, a surface grinder, a cutter and reamer grinder, a drill grinder, a power hack saw, and a small foot-press. There are also a blacksmith's outfit for forming and dressing tools, and facilities for hardening and tempering. Power is furnished by two 10-horse-power electric motors.

The Mechanical Drawing Rooms are on the top floor of the Engineering Building. These rooms accommodate two hundred and fifty students. About two hundred and twenty-five valuable models in wood and metal have been collected; many of these are mechanical in nature and are extensively used in the courses. The department possesses a dark room, exposure frame, and washing tank, for preparing and developing blue-prints. Connected with the main drawing room is a library and reading room in which may be found books relating to drawing and allied subjects. A limited number of sets of drawing instruments have been provided for the use of deserving students who would otherwise be unable to pursue courses in drawing.

The Civil Engineering Drafting Rooms, library, instrument room, and offices are located on the second floor of the Engineering Building. The drafting rooms have desks for about one hundred students. The instrument room contains a complete equipment of transits, theodolites, wye-levels, dumpy levels, hand levels, plane tables, compasses, base-line apparatus, planimeters, tapes, leveling rods, telemeter rods, range poles, etc., for the field work in surveying and railroad engineering. For the work in structural engineering the department has a collection of over four hundred photographs, five hundred large blue-prints of bridges, buildings, roof trusses, etc., and a complete set of steel structural shapes and iron beam-hangers. The department has also a collection of the various rocks used as road material, a Bausch and Lomb petrographic microscope, a set of the rail sections of the American Society of Civil Engineers, and models of railway appliances and harbor improvements.

MUSEUMS

The Museums of Zoölogy and Anthropology are in Rhode Island Hall, and are open to the public daily. Students desiring to use the collections for the purpose of study or investigation receive every encouragement, the aim being to make the museums not mere exhibition rooms, but places for work. The zoölogical and anatomical collections of the University form the Jenks Zoölogical Museum. The Museum of Anthropology contains a collection of articles of dress and implements from foreign countries, and a valuable collection of

stone implements of aboriginal American races, including those of Rhode Island.

The Herbarium is in the basement of Maxcy Hall. The general collection is estimated to contain upwards of seventy-five thousand specimens from all parts of the world, but mainly from America. The cryptogams occupy ten cases and the seed-plants thirty. All of these are mounted and systematically arranged according to Engler and Prantl's *Natürliche Pflanzenfamilien.* There are also several cases of unmounted specimens and duplicates. The genus *Carex* is particularly well represented, as it was the object of much special study by Col. S. T. Olney, the founder of the Herbarium.

The Museum of Fine Arts occupies the first floor of Manning Hall. It contains plaster casts of rare excellence, chiefly from works of classical sculpture, which are of great value in illustrating ancient history, biography, and art. Through the bequest of the late George W. Harris, Esq., of Boston, the museum has recently been greatly enriched by the accession of pictures by old masters of the Italian and North European schools, and of works in marble, china, glass, bronze, and silver.

The University possesses a large number of valuable portraits, which are hung in Sayles Memorial Hall. The collection receives frequent accessions. It now includes portraits of the University's principal benefactors, of many of its former officers, and of other distinguished persons, Americans and foreigners, the history of Rhode Island being especially well represented.

A series of fourteen oil paintings illustrating early American history by Frank O. Small, presented to the Department of History by Samuel M. Conant, is hung in the Faculty Room in the Administration Building.

All the collections are open to the public.

EXTENSION COURSES

THE University offers during each year two series of extension courses, open to all who desire to enter. These courses are given at the University; each course consists of ten lectures or other exercises, and while not identical with the corresponding course offered to regular students, is equivalent in the general character and amount of the work required. Persons entering these courses may at their option attend merely as listeners, or may do the prescribed work and take the examination given at the end of the course.

On the completion of each course, certificates are issued to those who have done the work assigned and passed the examination. Each extension course of ten lectures or other exercises is regarded by the University as the equivalent of one-half of a regular three-hour course for one term, and is accepted by the University in fulfilment of the requirements for the degree of A.B., Ph.B., and A.M., subject to such regulations respecting entrance requirements and prescribed courses as govern regularly enrolled candidates for the respective degrees. Regularly enrolled undergraduates, however, are not given credit for extension courses. For the degree of A.M., credit for extension courses may not exceed in amount two-fifths of the requirement for the degree, and the candidate must be registered with the Dean of the Graduate Department. Those who wish a certificate or University credit should announce their intention at the time of registration; all such announcements must be made not later than the third lecture of the course.

Applications for admission to extension courses should be sent to Professor Walter Ballou Jacobs, Secretary of the Committee on Extension Courses, Administration Building, Brown University. The application should give the full name and the address of the applicant, the course or courses in which registration is desired, and, if the applicant is a teacher, the present educational position. On receipt of the fee, a card of admission is issued which must be shown at the first lecture in each course. Classes are not formed in any course for which fewer than twenty-five apply. The fee for each course is three dollars and a half, payable in advance. Students desiring a certificate or University credit pay an additional fee of one dollar and a half; this fee is due on registration and must be paid not later than the third lecture of the course. Checks should be made payable to Brown University. They should be sent with the application if possible; if not, payment may be made at the Registrar's office, Administration Building. The fee for the gymnasium classes is ten dollars. These classes meet twice a week from the middle of November to the middle of March. Gymnasium classes will not be formed unless a sufficient number apply for membership.

The courses offered during the first half of the year 1908–9 are:

Biological Evolution. Professor WALTER. (*Biology X—E 1.*)
Poets of the Early Eighteenth Century. Professor HUNTINGTON. (*English 17—E 1.*)
Elementary German. Professor CROWELL. (*German 1—E 3.*)
The Era of the French Revolution. Professor MUNRO. (*History 6—E.*)
The Kith and Kin of the English Language. Professor ALLINSON. (*Indo-European Philology 1—E.*)
Voice Culture. Professor CROSBY. (*English 7—E 1.*)
Gymnasium Class for College Men. Professor MARVEL.

ARRANGEMENTS WITH OTHER INSTITUTIONS

THE RHODE ISLAND SCHOOL OF DESIGN

THE Rhode Island School of Design, which was incorporated in 1877 and opened in Providence in 1878, is an institution of large and increasing importance for the education of artisans and artists in the principles and processes of art, and for the general advancement of education in art by the exhibition of works of art and art studies, and by lectures. Its school buildings and museum are near the University grounds, and its collections are open daily to the public. Through its exhibitions there is opened to students an important means of culture.

The Corporation and Faculty of Brown University have agreed with the authorities of the Rhode Island School of Design upon a plan of coöperation in accordance with which certain courses at this School are open to students of the University and are counted towards a University degree. A description of these courses and a statement of the conditions under which they may be elected will be found in the list of studies given under the Department of Art, on page 70. Students from the Rhode Island School of Design are admitted to any classes in Brown University for which they are found to be prepared, and the University gives certain special courses for the benefit of classes from the School of Design.

THE AMERICAN SCHOOL OF CLASSICAL STUDIES AT ATHENS

In 1902 a number of the friends of the University, in recognition of the sixtieth anniversary of the graduation of the late Professor Harkness, one of the founders of the American School of Classical Studies at Athens, united in contributing to the School the sum of $5555, to establish a fund to be known as "The Albert Harkness Fund for the Benefit of Brown University." By the establishment of this fund, the privilege of free tuition in the School for all adequately prepared graduates of the University is henceforth secured. Any who desire detailed information regarding the School may obtain it by applying to Professor Poland, a former Director and now a member of the Managing Committee, Professor Manatt, likewise a member of the Managing Committee, or Professor Allinson, who has been elected Professor of the Greek Language and Literature at the School for 1910–1911.

THE NEWTON THEOLOGICAL INSTITUTION

The Newton Theological Institution has entered into an agreement with Brown University whereby certain work done in the University, for which a

mark of C has been awarded, or upon which the student passes an examination satisfactory to the Faculty of the Newton Theological Institution, will be credited toward graduation in the Theological course as follows: *Biblical Literature and History* 1, 2 (132 hours); 13, 17, 18, 14, 19, 20 (112 hours); 7–12 (108 hours); *English* 7 (33 hours): in all, 385 hours. The total number of prescribed hours in the Theological course at the Newton Theological Institution is 1485.

THE SCHOOL COMMITTEE OF THE CITY OF PROVIDENCE

The School Committee of the City of Providence, by special agreement, appoints a number of students as teachers in the Providence High Schools. Appointments are made from members of the Senior class who have pursued undergraduate courses in Education. These student-teachers are of two types. Those of the first type — of whom there are at least four (two of each sex) — are occupied in the schools each day for somewhat more than half the usual school session. They receive a salary of four hundred dollars a year from the city. Those of the second type are allowed to teach and observe about five hours a week. They have considerably more freedom in the choice of subjects and of hours than those of the first type; they receive no remuneration from the city. An unusual opportunity is thus afforded students to gain at the same time a knowledge of the theory of education and experience in the art of teaching. In making appointments to places as teachers of the lowest grade in the Providence High Schools, preference is given to those who have successfully completed this course of training as student-teachers. In this respect student-teachers of the second type have the same status before the committee that makes appointments as those of the first type. The practice-teaching in the Providence High Schools is done under the following supervising teachers: Charles E. Dennis, Ph.D., Latin; Charles E. Tilley, A.M., Physics and Chemistry; Harriet P. Fuller, A.M., Latin; M. Catherine Mahy, A.M., English; Lester B. Shippee, A.M., History and Civics; Howard D. Day, A.M., Physics and Chemistry; Adelaide H. Arnold, Ph.B., English and History; Russell C. Lowell, A.M., Mathematics; Clarence H. Manchester, A.M., English.

In a similar way a number of students are appointed to places in the Providence Grammar Schools. They receive a salary of three hundred dollars a year from the city. A limited number of Seniors and Graduates who are pursuing courses in Education are allowed to observe and teach in the Grammar Schools of the city in a way similar to that provided for student-teachers of the second type in the High Schools. The practice-teaching in the Providence Grammar Schools is done under the following supervising teachers: Isaac O. Winslow, A.M., Nathan G. Kingsley, and the Grammar Critics of the Providence Public Schools.

PROVISIONS FOR THE PERSONAL WELFARE OF THE STUDENTS

PHYSICAL TRAINING

FOR the physical training of the students excellent opportunities are offered by the Lyman Gymnasium. It is thoroughly equipped with baths, dressing rooms, bowling alleys, and all kinds of apparatus usually found in modern gymnasiums. Connected with the Gymnasium is the Colgate Hoyt Swimming Pool, seventy-five feet in length by twenty-five feet in width, with a capacity of seventy-five thousand gallons. All the gymnasium work is under the supervision of the Professor of Physical Training, who makes a thorough examination and measurement of each student on entrance, and at other times by request. Special cases are referred to Dr. G. A. Matteson, the University Physician. Such exercises are prescribed as may be necessary to give health, strength, and symmetrical development. No student is allowed to attempt any feat which is likely to result in injury. From the close of the Thanksgiving recess to the end of the second term, all first and second year students are required to attend gymnasium exercises three times a week. For other members of the University voluntary classes are provided. The instructor gives five-minute talks on personal hygiene and exercise. The class work consists of setting-up exercises, developing exercises, calisthenics, the use of clubs, dumb-bells, wands, and single sticks, and general athletics. Instruction is also given in swimming, a special effort being made to teach all students to swim. In all the work, the aim is to develop health, strength, and vitality.

All branches of athletics are under the management of the Brown University Athletic Association, and are controlled by a Board of Undergraduates. The Faculty Committee on Student Organizations has general oversight of the deportment and scholarship of the members of the various teams. Lincoln Field adjoins the gymnasium, and is a convenient place of exercise for the class teams and the students in general. Andrews Field, which is a mile and a half from the University, offers the usual opportunities for all the University teams. The Marston Field House, the gift of Mr. Edgar L. Marston, is fitted with dressing rooms, lockers, baths, and other accommodations.

MEDICAL CARE

Any student suffering from illness is expected at once to visit or summon the University Physician, Dr. George A. Matteson. When called to see students, the duty of the University Physician is to make one call for diagnosis and prescription at the expense of the University. For continued attendance, students will make their own arrangements with Dr. Matteson or some other physician.

The University owns two free beds in the Rhode Island Hospital, to the occupancy of which the President of the University has the right of appointment. The first of these, The Charles Smith Bradley Free Bed, was established in 1872 by the payment to the hospital of four thousand dollars by the late Judge Bradley, a member of the Board of Fellows, thereby endowing a free bed "under the control of the President of Brown University for the time being, for the benefit of any officer or student of that institution who may have occasion for it." The second, The George Ide Chace Free Bed, was established by the payment to the hospital of four thousand dollars by the late Professor George Ide Chace; this foundation gives to the President of the University "the right to nominate and send to said hospital a patient, being a proper subject for treatment in said hospital according to the rules of the institution, to occupy a bed in said hospital, and to receive the usual care, and medical, surgical, and other attendance, and medicines and board, free of charge."

RELIGIOUS SERVICES

A chapel service is held in Sayles Hall every week day at 9 a.m. At the same hour the Women's College has a chapel service in Pembroke Hall. The President usually conducts the exercises in Sayles Hall, and the Dean of the Women's College the exercises in Pembroke Hall. Attendance is required of undergraduates.

During the winter a series of vesper services is held in Sayles Hall on Wednesday afternoons at five o'clock, open both to students and to the public.

In 1908 the preachers at the vesper services were as follows:

Rt. Rev. William Lawrence, *Protestant Episcopal Bishop of Massachusetts.*
Endicott Peabody, *The Groton School, Massachusetts.*
Rev. Henry S. Coffin, *Madison Avenue Presbyterian Church, New York City.*
Rev. George H. Ferris, *First Baptist Church, Philadelphia.*
Professor Henry van Dyke, *Princeton University.*
Rev. Wayland Hoyt, *Memorial Baptist Church, Philadelphia.*
Rev. Samuel H. Crothers, *First Parish Church, Cambridge, Massachusetts.*
Professor Gerald Birney Smith, *The University of Chicago.*
Robert E. Speer, *Presbyterian Foreign Missionary Board.*

The Young Men's Christian Association, with headquarters in Rockefeller Hall, conducts weekly meetings for the discussion of topics of religious, educational, and philanthropic interest, courses in Bible Study led by members of the Association under the direction of teachers of wide experience, and during the winter term a series of weekly meetings for the study of missions. The Association also has charge of a boys' club, and provides workers for other similar organizations in the city. For the Employment Bureau see page 172.

THE BROWN UNION

The Brown Union is an organization intended to promote the social and religious life of the University. Its membership is open to students, alumni, and members of the Faculty. It occupies Rockefeller Hall, which was built especially for its use. The immediate direction of the Union is vested in a Board of Management consisting of the President of the Union and four members appointed by the Corporation. The building provides ample accommodations for the Brown University Young Men's Christian Association, and for other religious, literary, and social organizations of the students.

STUDENT ADVISERS

Every member of the Freshman class is assigned to some member of the Faculty who acts throughout the year as a special counselor to that student. In the assignment of students to advisers the preferences of both are consulted when practicable. The system is designed to further personal intercourse between student and instructor, and to afford the student means of obtaining at any time unofficial advice on any matter connected with his college life.

DORMITORY ACCOMMODATIONS

IN the University dormitories there are in all one hundred and thirty-two single rooms and thirty-four suites. The rooms in Hope College, University Hall, and Slater Hall are rented unfurnished. Those in Maxcy Hall and Caswell Hall contain all necessary furniture, occupants providing nothing except bed-clothes and towels. A table showing the rent and location of the dormitory rooms is given in the Appendix. The prices there given include rent, heat, and service for the college year. Lighting is not included; there are meters for each room and the occupants are charged for the amount of light used each term.

Each student renting a room must sign a contract therefor in the form given below, on which surety may be demanded, binding him to pay or cause to be paid the rent of the room through the entire year. Where two students rent a room together, each must sign a contract for half the room expenses. This obligation is not impaired by the student's removal from the University, whatever the cause of such removal.

The following is a contract between Brown University, party of the first part, and the undersigned, party of the second part. I hereby engage room No. in ; the same not to be occupied by any other person without consent of the party of the first part; and I bind myself to pay or cause to be paid to the Registrar of Brown University the entire rent,

including heat and service, amounting to $ for the college year beginning September, 190 .

It is a part of this agreement that I shall be held responsible for all damage or defacement of such room or its furniture, ordinary wear excepted; also that disuse of the room by me on account of illness, or in case registration is refused me owing to low standing or bad conduct, does not impair the obligation of this contract.

*Signed*_____

This day of 190 .

Not more than two students are allowed regularly to occupy a room or suite. No sub-letting of rooms will be allowed. When the University holds full contracts for a room, the tenant or tenants may admit to the use of the room in the daytime one or two students, but not more than two. The names of any such sub-tenants must be reported to the Registrar as soon as the arrangement for sub-tenancy is made. For each sub-tenant the University makes an extra charge of one dollar a term for service. This sum is paid by the tenant-in-chief if there is but one; if there are two, each pays half.

All rooms not assigned for 1909–10 before May 11, 1909, will be disposed of at a drawing on May 25 at 4.30 p.m. Men intending to enter college in September can arrange to be represented at the drawing by notifying the Registrar.

UNIVERSITY FEES

FEES FOR UNDERGRADUATES. *Tuition:* $35 a term; $105 a year. *Incidentals:* $16 a term; $48 a year. *Matriculation fee* (Freshman year only): $5. *Graduation fee* (Senior year only): $8.

The incidental expenses are for the printing of programs, examination papers, and the like, the use of the library and the gymnasium, heat for these buildings and for the recitation rooms, and the wages of servants to care for them.

Special students who are taking courses amounting to less than fifteen hours a week pay in proportion to the actual amount taken.

Students leaving college before the middle of a term, unless for misconduct or failure in scholarship, pay in tuition, incidentals, and laboratory fees (exclusive of breakage, which is charged at cost) half the usual term dues, provided prompt notice of withdrawal is sent to the Registrar. Students leaving college on account of misconduct or failure in scholarship receive no reduction.

Candidates for a first degree, who do not pay four years' full tuition fees, are charged a special fee of $25 at graduation.

FEES FOR RESIDENT GRADUATE STUDENTS. *Tuition:* $50 a term; $150 a year. *Graduation fee:* for the degree of Master of Arts, $15; for the degree of Master of Science, $15; for the degree of Doctor of Philosophy, $25.

Graduate students who are taking courses amounting to less than fifteen hours a week pay $10 for each three-hour course; if such students count towards an advanced degree work done as undergraduates, they pay also a special fee of $25.

A candidate in residence for the degree of Master of Arts or Master of Science who has paid full tuition for one year may, if necessary to the attainment of his degree, continue his studies for one year more without additional charge.

A candidate in residence for the degree of Master of Arts, who without remitting his studies becomes a candidate for the degree of Doctor of Philosophy, is credited with whatever tuition he has already paid, in case his previous work is allowed to count toward the higher degree.

A candidate for the degree of Doctor of Philosophy who has paid full tuition for two years may, if necessary to the attainment of his degree, continue his studies for two years more without additional charge.

FEES FOR NON-RESIDENT GRADUATE STUDENTS. *Registration fee:* $25. *Tuition:* $10 a term; $30 a year. *Examination fee:* $15.

A non-resident candidate is entitled, upon payment of the registration and tuition fees, to take one three-hour course in residence. For each additional course taken in residence a fee of $10 a term is charged.

A non-resident candidate who has paid tuition for two years may, if necessary to the attainment of his degree, continue his studies for one year more without additional charge, except for work taken at the University.

LABORATORY FEES. In addition to the regular fees mentioned above the following fees are charged for laboratory courses. These fees cover the cost of ordinary supplies; special supplies and breakage are charged extra. *Chemistry* 1, 2, 3, $3 *a term. Chemistry*, advanced 3-hour course, $5 *a term. Chemistry*, advanced 6-hour course, $10 *a term. Botany*, each 3-hour course, $3 *a term. Biology* each 3-hour course, $5 *a term. Physics*, each 3-hour course, $5 *a term. Mechanical Engineering*, each 3-hour course, $5 *a term. Electrical Engineering*, each 3-hour course, $5 *a term. Geology*, each 3-hour course, $3 *a term.*

GUARANTEE AND TERM BILLS. At the time of admission every student is required to present a guarantee signed by his parent or guardian or some other responsible person, covering all college expenses, unless his term bill is paid at the time of registration and his annual room rent at the beginning of the year.

Bills are sent out as soon as possible after the beginning of each term and are due on presentation.

ESTIMATE OF ANNUAL EXPENSES. The following is an approximate estimate of the annual expenses of a student who occupies (with a room-mate) a dormitory room. It does not include the matriculation fee of five dollars in the first year, the graduation fee of eight dollars in the fourth year, nor outlay for clothes and traveling or other strictly personal expenses.

	Moderate	*Liberal*
Tuition	$105.00	$105.00
Incidentals	48.00	48.00
Room rent, including heat and service	60.00	187.50
Board (40 weeks)	160.00	240.00
Books and laboratory expenses	30.00	75.00
Total	$403.00	$655.50

The Brown Union conducts a restaurant for its members in Rockefeller Hall; at present the price is $5 a week.

Students who need to earn money find in the city numerous opportunities for doing so by giving private instruction, by teaching in evening schools, and in various other ways.

FINANCIAL AID TO STUDENTS

THE aid which Brown University gives to students of limited means is granted under three conditions: (1) the recipient must be a candidate for a degree, having been fully admitted to the Freshman class or to advanced standing; (2) the recipient must be of good moral character and maintain a creditable standing in his studies; the aid is withdrawn if the student is placed under college discipline or fails to maintain good scholarship; an average of C is expected; (3) the recipient must be in need of the financial assistance rendered. The aid rendered is of three kinds: (1) awards from fellowship, scholarship, and aid funds; (2) loans; (3) payment in cash or in credit on term bills for services rendered.

The administration of the scholarship and aid funds is in the hands of a committee of the Faculty, annually appointed by the Corporation for that purpose. The Dean of the University is the executive of the committee. Applications for scholarships for a given academic year should be filed with the Dean before May 1 of the preceding year. Action upon all applications is taken by the committee before July 1. The President has charge of the administration of fellowships, loan funds, and the service system.

[A] FELLOWSHIP, SCHOLARSHIP, AND AID FUNDS

THE GRAND ARMY OF THE REPUBLIC FELLOWSHIP. The income of a fund of ten thousand dollars given by the Grand Army of the Re-

public, Department of Rhode Island, is annually awarded to a graduate of Brown University, of acknowledged excellence in scholarship and character. The recipient must be enrolled as a candidate for the degree of Doctor of Philosophy (or have obtained that degree), must reside at Brown University, and must devote himself exclusively to advanced liberal study. Holders of the fellowship are appointed by the President of the University, subject to the approval of the Board of Fellows. Appointments to the fellowship are regularly made for one year, but incumbents of special diligence or ability may be reappointed. Descendants of Union Veterans of the Civil War are always to be preferred when the other qualifications of candidates are equal. The political or religious preferences of candidates cannot be taken into consideration. The President is authorized to make such other conditions, not inconsistent with the above, as he may from time to time deem wise and proper. Applications for this fellowship must be made in writing on blanks furnished by the Dean of the Graduate Department, and must be in the hands of the President not later than May 15. The Grand Army of the Republic Fellow for 1908–9 is

CHARLES BARROWS BENNETT

TEACHING FELLOWSHIPS. In addition to the foregoing a number of Teaching Fellowships have been established, information regarding which will be furnished by the President.

FUNDED SCHOLARSHIPS. There are now seventy-six scholarships of one thousand dollars, each with a designated name and yielding the beneficiary forty-five dollars annually; with the exceptions indicated below, they bear the names of their founders. The income is awarded annually according to the conditions attaching to each fund.

THE ELEVEN NICHOLAS BROWN SCHOLARSHIPS

THE FOUR UNIVERSITY SCHOLARSHIPS

THE PRESIDENT'S SCHOLARSHIP, founded by President Sears.

THE SIX ALVAH WOODS SCHOLARSHIPS

THE JAMES H. DUNCAN SCHOLARSHIP

THE ISAAC DAVIS SCHOLARSHIP

THE ARNOLD WHIPPLE SCHOLARSHIP, founded by Mrs. Arnold Whipple.

THE EPHRAIM WHEATON SCHOLARSHIP, founded by James Wheaton.

THE JOSEPH BROWN SCHOLARSHIP, founded by Mrs. E. B. Rogers.

THE GARDNER COLBY SCHOLARSHIP

THE CROCKER SCHOLARSHIP, founded by Robert H. Ives and Thomas P. Ives, Trustees.

THE CLARK SCHOLARSHIP, also founded by the Messrs. Ives.

The George K. and H. A. Pevear Scholarship

The Joseph Charles Hartshorn Scholarship

The Rogers High School Scholarship, founded by William Sanford Rogers.

The James Wheaton Scholarship

The Charles Thurber Scholarship

The Pardon Miller Scholarship, founded by Mrs. Ann E. Miller.

The Hezekiah S. Chase Scholarship

The William Bucknell Scholarship

The Austin Merrick Scholarship, founded by Mrs. Olive E. Merrick.

The Horatio N. Slater Scholarship

The Earl P. Mason Scholarship

The Newport Scholarship, founded by William Sanford Rogers.

The Alexis Caswell Scholarship

The Three Henry Jackson Scholarships

The Mumford Scholarship, founded by Mrs. Louisa D. Mumford.

The Albert Day Scholarship

The Henry P. Kent Scholarship

The Romeo Elton Scholarship

The Five Annie E. Waters Scholarships

The Lewis Fairbrother Scholarship, founded by Mrs. Lewis Fairbrother.

The George Lawton Scholarship

The John P. Crozer Scholarship, founded by Mrs. Margaret Bucknell.

The James Y. Smith Scholarship

The Two S. S. Bradford Scholarships

The Francis R. Arnold Scholarship

The Cornelia E. Green Scholarship

The Henry Clifford Knight Scholarship, founded by Miss Amelia S. Knight, in memory of her brother, a member of the class of 1875.

The Thurston Scholarship, founded by the Honorable Benjamin F. Thurston, LL.D., of the class of 1849.

The Rufus Babcock Scholarship, founded by Mrs. Caroline Vassar Babcock Jones, in memory of her father, the Rev. Rufus Babcock, D.D., of the class of 1821.

The James Fletcher Blackinton Scholarship, founded by Mrs. Mary D. Blackinton, in honor of her husband, James Fletcher Blackinton, of the class of 1847.

The Five William A. White Scholarships, founded by Mrs. Abby S. A. White, in honor of her husband, William A. White, of the class of 1857.

The Richards Scholarship, founded by the Rev. William Coolidge Richards, of the class of 1837.

The Samuel White Duncan Scholarship, founded by Mrs. Mary Duncan Harris.

The Benjamin Hutchinson Judah Scholarship

The S. Dryden Phelps Scholarship, founded by the Rev. S. Dryden Phelps, D. D., of the class of 1844, the income to be given each year to some student who is preparing for the Baptist ministry.

There are also the following scholarships of larger amounts:

The Two George J. Sherman Scholarships, paid from the income of a fund of two thousand five hundred and sixty-five dollars.

The Bartlett Scholarship of four thousand dollars, founded by Mrs. Elizabeth Slater Bartlett; the income to be "devoted to the support of one or more students needing pecuniary aid, and giving promise, by studious aim and by character and scholarship, of rising to distinction and usefulness."

The Glover Scholarship of five thousand dollars, founded by Henry R. Glover, "in memory of his father, Samuel Glover, of the class of 1808, and of his brother, Samuel Glover, Jr., of the class of 1839."

The Rebecca A. Wheeler Scholarship of fifteen hundred and seventy-one dollars; the income to assist some worthy student, preferably a candidate for the Baptist ministry.

The Scholarship of the Class of 1838 of thirty-eight hundred dollars.

The Joseph Charles Hartshorn Scholarship of two thousand dollars.

The Two Banigan Scholarships of three thousand dollars each, founded by Joseph Banigan of Providence; the income as far as necessary to be used each year to defray the tuition of two students of the University.

The George Ide Chace Scholarship of five thousand dollars, founded by Professor George Ide Chace, the income to be assigned each year by the Faculty to some member of the Senior class needing the money, who shows "marked ability, exemplary industry, generous aspirations, and irreproachable character." If in the Senior class there chances to be no person fulfilling the requirements of this scholarship, the proceeds of the scholarship for that year must be appropriated to the purchase of books for the library of the University.

The Abby Wheaton Chace Scholarship of four thousand dollars, also founded by Professor George Ide Chace; the income to be assigned yearly by the Faculty to some member of the Junior class needing the money, who shows "marked ability, exemplary industry, generous aspirations, and irre-

proachable character." If in the Junior class there chances to be no person fulfilling the requirements of this scholarship, the proceeds of the scholarship for that year must be appropriated to the purchase of books for the library of the University.

The John L. Lincoln Scholarship of twenty-five hundred dollars, founded by Abby G. Beckwith.

The Truman Beckwith Scholarship of twenty-five hundred dollars, founded by Abby G. Beckwith.

The Thayer Scholarship, founded by Edward C. Thayer, in honor of his father, Joseph Thayer, of the class of 1815, the income to be for the education of any young man or woman a resident of Uxbridge, Mass., endorsed by the selectmen and superintendent of schools there, needing pecuniary aid, and giving promise by character and scholarship of a life of usefulness. If there is no applicant from Uxbridge, the income may go to any applicant from Massachusetts who fulfils the conditions.

The Two Walter G. Webster Scholarships, founded by the Rev. Walter G. Webster, of the class of 1878; the income to go each year to two young men, members of the Freshman class, holding the full diploma of the Classical High School of the City of Providence and duly matriculated for the degree of Bachelor of Arts; "the nomination to rest with the Principal of said school, and to be made on the basis of character and scholarship, due regard being had to the need of such assistance."

The S.W. Marston Scholarship, founded in the name of his father by Mr. Edgar L. Marston of New York. This scholarship yields two hundred dollars a year, and is open to any graduate of William Jewell College who may be recommended by the President of that institution.

The Three E. L. Marston Scholarships, founded by Mr. Edgar L. Marston of New York. Each of these scholarships yields two hundred dollars a year. The first scholarship is open to any graduate of La Grange College who may be recommended by the President of that institution. The second is open to any graduate of Baylor University under similar conditions. The third is open to any graduate of the Central High School in St. Louis, Mo., subject to the recommendation of the Principal.

The Eaton Scholarship of two thousand dollars, founded in memory of her husband by Mrs. Caroline B. Eaton, the income to be used "in the aid of indigent Baptist young men having the ministry in view, preference being given to young men from New Hampshire."

The following scholarships have been in part established:

The Two George Hale Bacon Memorial Scholarships paying each recipient one hundred and fifty dollars a year, founded by George A. Bacon in the name of his father. The awards are made only to young men in need of as-

sistance and solely on grounds of scholarship and personal character, no other consideration to receive any weight whatever.

AID FUNDS. There are four aid funds at the disposal of the University. The income of these funds is divided into scholarships of varying amounts which are awarded under the general conditions applicable to all scholarships. They are as follows:

The Aaron Lucius Ordway Memorial Fund of twenty-five hundred dollars, founded by Mr. Samuel H. Ordway of New York in the name of his father, "the income to be used in the discretion of the President to assist regular students of the University who are in need of assistance. Each student who accepts such assistance shall in writing acknowledge the receipt of the same and pledge himself to repay the amount so received by him as soon as he can conveniently afford to do so, all sums so repaid to be added to the principal."

The Aid Fund, established by friends of the University in 1868 and now amounting to $9300.

The Daniel W. Lyman Fund for Students, established by Daniel W. Lyman and now amounting to $72,250.

The William Grosbeck Goddard Memorial Fund of $3500, founded by Col. Robert H. I. Goddard in the name of his son, "the income to be used by the President or acting President of the University, in his discretion, to aid young men without adequate means to obtain an education. Each beneficiary shall give a receipt for all money received, and shall agree, without making any written pledge, to refund amounts received by him whenever he can do so conveniently."

The Edwin A. W. Harlow Fund, founded by Edwin A. W. Harlow, now amounting to $10,400, the income to be "for assisting poor young men of excellent moral character in the Academic Department."

UNIVERSITY SCHOLARSHIPS. In addition to the income of the Scholarship and Aid Funds, the Advisory and Executive Committee of the Corporation appropriates each year a large sum of money from the Common Fund of the University for the assistance of students. The amount at present exceeds $15,000, and is used to provide University scholarships, which are of three grades:

(1) A small number yielding each $50 a term or $150 a year, awarded to a few Juniors and Seniors of especially high scholarship.

(2) A number yielding each $35 a term or $105 a year.

(3) A number yielding each $20 a term or $60 a year, used in part to supplement the smaller endowed scholarships, and also for those students needing relatively less assistance.

The University Scholarships are taken directly from the University trea-

sury and employ funds which would otherwise be available for other college purposes. It is expected, therefore, that the holders of these scholarships will regard them as in a certain sense loans, and will at some time after graduation return to the treasury the amount awarded, to be used for the increase of the permanent scholarship funds, or that they will in some other way contribute to the endowment of the University.

[B] LOAN FUNDS

I. The Alumni Loan Fund, now amounting to about $4300, was established by the Alumni Association at the Commencement of 1900 by a vote transferring to the Treasurer of the University the fund formerly known as the Brown Loyalty Fund, to be used as a loan fund for students. The principal of this fund is loaned at interest, to be repaid as agreed upon in each instance.

II. There is another fund, of several hundred dollars, which is loaned in small amounts without interest, for short periods, to students unexpectedly needing temporary assistance.

[C] SERVICE

The University is able to give employment to a number of students as monitors, assistants in the libraries and laboratories, members of the choir, and clerks in the Registrar's office. Not more than two hours a day are ordinarily required of any student; the compensation is made at definite rates. At present about $6000 a year is appropriated for service, and employment is given to about eighty students, who receive amounts varying from $20 to $40 a term.

The University also coöperates with the Young Men's Christian Association in securing employment for students by business houses and residents of the city. Students who desire any kind of work are requested to make application to the Manager of the Employment Bureau, Rockefeller Hall.

PREMIUMS, PRIZES, AND HONORS‡

FOR EXCELLENCE IN PREPARATORY STUDIES

The President's Premiums, derived from the income of a fund presented to the University in 1843 by President Wayland, are awarded each year to those members of the Freshman class who upon special examination are

‡ The premiums and prizes enumerated here are, with the exception of the *Society of Colonial Dames Prize in American History* (see page 177), intended for men. The students of the Women's College are entitled to compete in all examinations for premiums and prizes offered in Brown University. In case any woman is entitled to a first premium, one is awarded her by the Dean of the Women's College.

found to have attained the highest excellence in the studies required for admission to the University in Greek, Latin, and French. First and Second Premiums are awarded in each of these studies. The examinations deal with the general principles and laws of the languages involved rather than with irregularities and exceptions. Special importance is attached to the pupil's familiarity with the subject-matter of the works read, and to his ability to translate with accuracy and facility into clear, appropriate, and idiomatic English. The examination in Greek is held in 5 Maxcy Hall at 2.30 p.m. on the second Saturday of the first term, that in Latin in 1 Sayles Hall at 2.30 p.m. on the third Wednesday, and that in French in 1 Sayles Hall at 2 p.m. on the fourth Wednesday. The award of these premiums in 1908 was as follows:

In Greek *the first premium to* John Tracey Winterich, *instructed in the Classical High School, Providence.*

The second premium to Warren Randolph Burgess, *instructed in the Latin School, Cambridge, Massachusetts.*

A collateral first premium for an examination of equal merit, in equal parts, to Ollie Annette Randall, *instructed in the Classical High School, Providence, and* Margaret Parkhurst Stevens, *instructed in the Rogers High School, Newport.*

In Latin *the first premium to* John Tracey Winterich, *instructed in the Classical High School, Providence.*

The second premium to William Hovey Dinkins, *instructed in Selma University, Selma, Alabama.*

In French *the first premium to* Lionel Victor Domin, *instructed in the English High School, Providence.*

The second premium to James Vincent Ricci, *instructed in the Classical High School, Providence.*

The Hartshorn Premiums, three in number, derived from the income of a fund of one thousand dollars, presented to the University in 1872 by Joseph Charles Hartshorn, of the class of 1841, are awarded to those members of the Freshman class who upon examination are found to excel in the mathematical studies required for admission. The examination is held in 27 Wilson Hall at 2 p.m. on the third Saturday of the first term. The award of these premiums in 1908 was as follows:

The first premium to Ralph Harold Chadwick, *instructed in the High School, Hillsboro, New Hampshire.*

The second premium to Abraham Harry Gretsch, *instructed in Phillips Exeter Academy, Exeter, New Hampshire.*

The third premium to Charles Ambrose Malloy, *instructed in the State Model School, Lambertville, New Jersey.*

The Caesar Misch Prizes in German are awarded to the two members of the Freshman class who upon special examination show the highest excel-

lence in the studies required for admission to the University in German. The examination occurs on the fourth Saturday of the first term. In 1908 these prizes were awarded as follows:

The first prize to William Andrew Weidmann, *instructed in the Cranston High School, Auburn, Rhode Island.*

The second prize to Edwin Maurice Rose, *instructed in the Classical High School, Providence.*

FOR EXCELLENCE IN UNIVERSITY STUDIES

The Carpenter Prizes for Elocution, derived from the income of a fund established in 1867 by Thomas Carpenter, are awarded annually to the three students to whom are assigned the first, the second, and the third rank of excellence in elocution. The competition is open to all members of the Sophomore class and to those members of the Junior class who did not enter the preliminary competition in their Sophomore year. The selections declaimed may be either prose or verse. They must be approved by the Professor of Public Speaking, with whom competitors must enter their names not later than the first day of February. A preliminary contest for the purpose of selecting the speakers takes place in the latter part of the winter term; all arrangements for it are in the hands of the Professor of Public Speaking. The committee of award consists of five members,—the Professor of Public Speaking, who is the chairman, two persons selected by the Corporation, and two persons selected by the Sophomore class during the first term of the year; no one who is or has been a member of the class is eligible. In 1909 the contest will be held in Manning Hall on May 4. In 1908 these prizes were awarded as follows:

The first prize to Albert Farnsworth
The second prize to Albert Moses Cristy
The third prize to Lawrence Lyle Larrabee

The Hicks Prizes for Excellence in Debate, established by the Honorable Ratcliffe Hicks, of the class of 1864, are annually awarded as follows:

I. Two prizes of fifty dollars each, one in each of the two series of contests for the selection of the representatives of the University in the intercollegiate debates. In each instance the prize is given to the man showing the greatest ability both in the preliminary trials and in the final trial. In awarding the prize, regard is given to thought, style, and delivery. The judges are three, appointed by the Debating Union. In 1907-8 these prizes were awarded as follows:

The first prize to Donald Leroy Stone
The second prize to Chauncey Earle Wheeler

II. A first prize of thirty dollars and two second prizes of twenty dollars to

the students showing the greatest ability in a public debate between the representatives of the Junior and Sophomore classes. Each class is represented by three men, whom a committee appointed by the President of the University chooses from the preliminary contestants at least a month before the public debate. This committee also determines the subject and makes the necessary arrangements. The judges in the public debate are three, one appointed by the President, and one by each group of competitors. The prizes are awarded irrespective of the decision upon the debate as a whole. Any one prize may be withheld if no one is adjudged to deserve it. In making the award, regard is given to thought, style, and delivery. In 1909 the public debate will be held on May 20. In 1908 these prizes were awarded as follows:

The first prize to James Greenan Connolly
The second prize in equal parts to Donald Graham Clark
and Donald Leroy Stone

The Dunn Premium. The income of a fund of one thousand dollars, presented to the University in 1872 by pupils and friends of Professor Robinson Potter Dunn, is given, at the end of the Junior year, to the student having the highest standing in the courses in rhetoric, English composition, and public speaking. In making the award, regard is given to the number of such courses taken as well as to the rank attained in them. In 1908 this premium was awarded to

Chauncey Earle Wheeler

The Carpenter Premiums, two in number, are derived from the income of funds established in 1867, one by Thomas Carpenter and one by Lydia Carpenter. They are assigned at the end of the Senior year to the two members of the Senior class who, "already on scholarships, shall, in the judgment of the Faculty, unite in the highest degree the three most important elements of success in life, — ability, character, and attainment." In 1908 these premiums were awarded to

Earle Winfield Peckham *and* Wade Clarence West

The Howell Premium. The income of a fund amounting to one thousand dollars, presented to the University in 1867 by Gamaliel Lyman Dwight, is given at the close of the second term of the Senior year to the student who, "having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy." To be considered a candidate for the Premium a student must, in each term from the Freshman year to the end of the second term in the Senior year, take at least one of the elective courses in pure or applied mathematics. In 1908 this premium was awarded to

Wade Clarence West

The Class of 1873 Prize. The income of a fund of one thousand dollars, presented to the University by the class of 1873, is annually awarded to that member of the Senior class who writes the best essay on a historical or a

philosophical subject. The subjects, which are of a historical nature one year and of a philosophical nature the next, are assigned by the respective departments. For 1907–8 the subject was : *The relations between England and Spain in the reign of Philip II.* For 1908–9 the subject is: *Psychological determinism and moral responsibility.*

In 1908 no award was made.

The Foster Premium in Greek is derived from the income of a fund of three thousand dollars bequeathed to the University in 1880 by the Honorable Lafayette Sabine Foster, LL.D., of the class of 1828. In accordance with the terms of the donor's will, the income of this fund is to be "annually paid to that scholar of the institution who passes the best examination in the Greek language, the examination to be made in the first, third, and twenty-fourth books of Homer's *Iliad*, or in the *Oration on the Crown* by Demosthenes." The examinations are open to the members of the Senior class. The next examination will be held early in May, 1909; candidates will be examined in the *Iliad*. In 1908 this premium was awarded to

Earle Winfield Peckham

The Lucius Lyon Premiums in Latin are derived from the income of a fund of five thousand dollars presented to the University in 1893 by Mrs. Caroline L. Lyon, in memory of her husband, Lucius Lyon, of the class of 1844. Five-tenths of the income each year forms the first premium, three-tenths the second, and two-tenths the third. Any part of the income not needed in any given year must be added to the fund. The premiums are awarded on the basis of a special examination held during the last term of the Senior year. The examination may relate to any or all of the following subjects : the Latin language, Roman literature, Roman history. The President of the University and the head of the Latin department prescribe the conditions for admission to the examination. In 1908 these premiums were awarded as follows:

The first premium to Earle Winfield Peckham
The second premium to Grey Huntingford Wyman
The third premium to Harry Wolcott Robbins

The Bennett Prize. The income of a fund of four hundred dollars, established by Philo S. Bennett in 1905, will be awarded annually for an essay on Free Government. The conditions governing the competition will be announced later.

The Class of 1880 Prizes, established in 1905 by the class of 1880, are annually awarded to the undergraduates of Brown University who show the most ability in presenting arguments on some current question of importance to Brown University. The subject for discussion, the time, and the manner of presentation are all determined by representatives of the English

department in consultation with the President of the Debating Union and the editors-in-chief of the *Brunonian* and the *Brown Daily Herald*. The prizes are awarded by a board of five judges: two are appointed by the President of the University, two by the undergraduate members of the committee in charge; the fifth is a member of the English department.

In 1909 a first prize of forty dollars and a second prize of twenty-five dollars will be awarded to the students who show the most ability in a public discussion of the topic chosen. This discussion will be held on February 2; a preliminary discussion will be held on January 26. A prize of thirty-five dollars will be awarded to the writer of the best argumentative essay of from three thousand to five thousand words upon the same subject. The essays must be signed with an assumed name; they must be in the hands of the Registrar before 4 p.m., January 25. The prize for the essay may be withheld if no essay is deemed worthy, or may be divided between the first and the second competitors. A student may compete for both prizes. For 1909 the subject chosen is: *Should the students of Brown University take action to prohibit the establishment of new fraternities?* In 1908 these prizes were awarded as follows:

The first prize for the discussion to Donald Leroy Stone
The second prize for the discussion to Ralph Philip Boas
The prize for the essay to John Wymond Miller Bunker

The Mohonk Prizes. For 1907–8 the Honorable George H. Utter offered three prizes, to be known as the Mohonk Prizes. They were: a prize of thirty dollars for an essay of from three to five thousand words upon the subject, *The contribution of the second Hague Conference (1907) to international peace;* a first prize of forty dollars and a second prize of thirty dollars to be awarded upon a debate on the same topic. The competition was open to members of the Senior and Junior classes. A student could compete for both prizes. The prizes were awarded as follows:

The prize for the essay to Henry Boyd Selleck
The first prize for the debate to Chauncey Earle Wheeler
The second prize for the debate to John Joseph Aloysius Cooney

The Society of Colonial Dames Prize in American History. The income of a fund of fifteen hundred dollars, known as The Roger Williams Fund established by the National Society of Colonial Dames in the State of Rhode Island and Providence Plantations, given to the University in 1906, is awarded annually as a prize for the best essay on a subject in American colonial history. The competition is open to Juniors, Seniors, and Graduates, and to men and women on equal terms. Essays must show independent use of authorities, and should, in general, extend to at least four thousand words. Detailed regulations governing the competition are announced from year to year, and the name of the successful competitor is announced at Com-

mencement. The subject for the essay in 1908–9 is: *The history of Rhode Island, principally with reference to the relations between the colony and Great Britain, from* 1685 to 1700. In 1908 the subject was: *The public life of Nathanael Greene;* the prize was awarded to

Marjorie Whitney Stevens

The William Gaston Scholarship. This fund of five thousand dollars was established in 1899 by the widow and children of the Honorable William Gaston, LL.D., of the class of 1840. Its income is awarded annually by the Faculty solely upon merit, without reference to financial condition. For 1908–9 this scholarship has been awarded to

Frederick May Boyce

The Gaston Prize Medal for Excellence in Oratory. From the income of a fund of three thousand dollars established in 1894 as a memorial to the Honorable William Gaston, LL.D., of the class of 1840, a gold medal is annually awarded to the member of the graduating class who delivers the best original oration in English. The orations are not to exceed fifteen hundred words. In order to compete for the prize a student must deposit with the Registrar a typewritten copy of his oration, signed with an assumed name, six weeks before the public competition. From these orations a committee appointed by the President of the University selects not more than six for delivery. The committee of award in the final contest consists of three members appointed by the President. In making the award, regard is given to thought, style, and delivery. The winner of the medal is entitled to deliver an oration at Commencement. In 1909 the orations must be deposited with the Registrar on or before April 2; the public competition will be held on May 11. In 1908 this prize was awarded to

Frank Fenner Mason

Appointments for Commencement. At Commencement five members of the graduating class deliver original orations in English of not more than fifteen hundred words each. One speaker is the winner of the Gaston medal; the other four are selected by the Faculty from nominations by the heads of departments. The basis of selection is scholarship, ability to write, and ability to speak. The students thus appointed confer with the Professor of Rhetoric, who advises with them in regard to the choice and treatment of their subjects, and with the Professor of Public Speaking, who trains them in the delivery of their orations. Before Commencement each speaker must hand to the Professor of Rhetoric a copy of his oration for preservation in the University Library. In 1908 the speakers selected by the Faculty were:

Alfred Joseph Maryott
Earle Winfield Peckham
Earl Clarendon Ross
Wade Clarence West

Final Honors in any department are awarded, at the completion of the studies leading to a bachelor's degree, to those who have secured: (1) Term Honors in the department in courses aggregating eighteen or more term hours; (2) a mark of C or H in eighty-five per cent of all their courses of study. In any department, however, certain specified courses may not be included in those counted for Final Honors. The names of all students awarded Final Honors are printed in the Commencement Program and in the Annual Catalogue. In 1908 Final Honors were awarded to members of the Senior Class as follows:

David Justin Allen, *Chemistry, Mathematics, Physics.*

Samuel Jacob Beeber, *Chemistry.*

Ralph Philip Boas, *Biblical Literature and History, English, Roman Literature and History.*

Robert Wilbur Burgess, *Mathematics.*

Harry Duffield Clough, *Comparative Anatomy.*

Louis John Gillespie, *Chemistry.*

Clifford Murray Hathaway, *Civil Engineering.*

Leslie Stephen High, *Philosophy.*

Carl Joseph Hunkins, *Physics.*

Alfred Joseph Maryott, *Germanic Languages and Literatures, Roman Literature and History, Romance Languages and Literatures.*

Thomas Miller, *History.*

Earle Winfield Peckham, *English, Greek Literature and History, Roman Literature and History, Romance Languages and Literatures.*

Earl Clarendon Ross, *Biblical Literature and History, English, Germanic Languages and Literatures.*

Henry Pomeroy Stacy, *Mathematics.*

Harlan True Stetson, *Astronomy, Mathematics, Physics.*

Frank Albert Walker, *Mathematics.*

Wade Clarence West, *Civil Engineering, Mathematics, Mechanics, Physics.*

Katherine Everett, *English, Philosophy, Roman Literature and History.*

Ruth Leonard Foster, *Greek Literature and History, Roman Literature and History.*

Abbie Howard Keith, *English, Germanic Languages and Literatures, Romance Languages and Literatures.*

Marjorie Whitney Stevens, *Germanic Languages and Literatures, History.*

Emilie Marie Louise Wildprett, *History.*

DEGREES CONFERRED IN 1908

DEGREES IN COURSE

BACHELOR OF ARTS

Samuel Jacob Beeber
Judson Everett Benjamin
William Charles Bitting, Jr.
Ralph Philip Boas
William Ward Browne
Robert Taylor Burbank
Robert Wilbur Burgess
Walter Henry Burnham
Carl Hardin Carson
Norman Stanley Case
Howard Millar Chapin
Ronald Blake Clarke
Harry Duffield Clough
John Joseph Aloysius Cooney
Carl Leslie Cordery
Alfred Jason Densmore
Albert Robinson Evans
Benson Ralph Frost
Christopher Albert Greene
Harry Joseph Putnam Hadley
James Alexander Hall
Leslie Stephen High
Sheldon Jenckes Howe
Clifford Chesley Hubbard
Carl Joseph Hunkins
Harry Albert Jager
Alfred Hopkins Lake
John Howard Lever
Harold William Lyall
John Brown Mackenzie
Alfred Joseph Maryott
Frank Fenner Mason
Thomas Miller
Robert Charles Nason
Lewis Harvey Nutter
John Joseph O'Connor
Roland Cuthbert Ormsbee
Ely Eliot Palmer
Henry Thornton Peace
Earle Winfield Peckham
Fred Hale Pierce
George Francis Alexander Riley
Harry Wolcott Robbins
Benjamin Theodore Schiek
Maurice Elijah Schur
Wilmarth Young Seymour
Carl Wilfred Shepardson
Nathan Sternseher
Leslie Earl Swain
Albert Clark Thomas
Peter Augustus Worsley
Grey Huntingford Wyman

Mary Wood Arnold
Berta Edith Baldwin
Jeanette Holmes Baldwin
Louise Adams Bourne
Laura Cindarella Brant
Rosa Ellen Brant
Dorothea Brenton Burge
Gertrude Mace Childs
Bertha Guild Coffin
Elizabeth Reynolds Cole
Katherine Everett
Mary Isabel Hall
Frances Eldridge Hatch
Emily Sarah Elizabeth Harvey
Hattie Maria Holt
Sarah Ann Ide
Cora Ella Medbury
Caroline Battelle Phillips
Alice Manchester Potter
Alice Ethel Presbrey
Marjorie Whitney Stevens
Beatrice Anna Sturdy

Ruth Leonard Foster
Lida Montfort Fowler
Mary Amelia Gorman
Laura Ellen Webster
Hannah Grace Welch
Mary Harkness White

BACHELOR OF PHILOSOPHY

David Justin Allen
John Ervin Bullard. *With the Class of* 1904
Walter Roberts Bullock. *With the Class of* 1902
Elmer Jay Bunting
Franklin Irving Chichester
Paul Lloyd Chipman
Henry Garfield Clark. *With the Class of* 1907
Irving Haven Coffin
Arthur Lewis Denton
Miner Elliot Fenn
Louis John Gillespie
Ira Nathan Goff, Jr.
James Ovington Hazard
Edward Charles Hempel
Homer Bailey Hunt
John Clarence McDonald
William Lloyd McDonald
Hunter Sylvester Marston
James Cook Martin
Alfred John Olsen, Jr.
Sidney Small Paine
Charles Westmacott Perry
Robert Sanborn Pinkham
Charles Sumner Plummer, Jr.
Avedik Hagop Poladian. *With the Class of* 1907
John Donald Pryor
Earl Clarendon Ross
Bertram Francis Ryder
Henry Pomeroy Stacy
Harlan True Stetson
George Danforth Taylor
Raymond Frank Tift. *With the Class of* 1907
George Alfred Townsend
Leon Ernest Varnum
James George Whalen
Joseph Butler Whittemore
Howard Seth Young

Gertrude Marsh Ellis
Nelly Mary Evans
Madeline Katharine Johnson
Abbie Howard Keith
Audrey Lydia Lake
Fannie Whittlesey Shore
Lydia Ann Slade
Emilie Marie Louise Wildprett

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Leslie Edgar Bushnell
Haven Alton Cobb
Fred Albert Edgecomb
Virgil Ehle
Clifford Murray Hathaway
Lucian Winfield Himes
John Ralph Honiss
Clinton Coolidge Low
Arthur Gray Seabury, Ph.B.
Percy Augustus Shaw
Joseph Angier Vernon
Wade Clarence West
James Wilmot
Sydney Smith Winslow

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Frederick Eugene Banfield, Jr., Ph.B.
Norman Lewis Sammis
Frank Albert Walker

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Osmore Wheeler Buddington
John Gladding Canfield
Robert Ripley Gleason
Clayton Edward Hunt
Harold Edson Minnerly
Frank Garret Shinn

MASTER OF ARTS

Mary Elizabeth Bannan, Ph.B.
Irving Judson Beckwith, A.B.
William Alva Brady, Ph.B.
Edgar Sheffield Brightman, A.B.
Mildred Allen Carnes, A.B.
Clarence Marsh Case, A.B.
Lillian Maud Coffin, A.B.
Dana Fletcher Downing, A.B., M.D.
Wirt Thayer Fellows, B.L., A.B.
Dana Taylor Gallup, A.B.
Merritt Lodge Gregg, A.B.
Joseph Leo Harson, Ph.B.
David Lacy Hibbs, A.B.
Leslie Stephen High
Amasa Amidon Holden, Sc.B.
Mary Barnes Holden, A.B.
Bertha Ethel Hopkins, Ph.B.
Carl Joseph Hunkins
Harry Albert Jager
Harvey McLeod Kelley, A.B.
William Setchel Learned, A.B.
William Jackson Nelson, A.B.
Thomas Richard Peede, Ph.B.
Herbert John Piper, A.B.
Harry Wolcott Robbins
Ethel Louise Robinson, Ph.B.
William Nisbet Ross, A.B.
Louise Schutz, A.B.
Henry Pomeroy Stacy
Lawrence Norman Wight, A.B.
Walter Edgar Woodbury, A.B.

MASTER OF SCIENCE

Walter Clifton Slade, Ph.B.

DOCTOR OF PHILOSOPHY

Maurice Louis Dolt, Ph.B., Sc.M.

THESIS: "The Action of Acetic Anhydride on para Methoxy Phenyl Propiolic Acid, and on Methylene Ether of 3-4-Dihydroxy Phenyl Propiolic Acid."

Philip Bardwell Hadley, Ph.B.

THESIS: "The Development and Behavior of the American Lobster."

DEGREES OUT OF COURSE

BACHELOR OF ARTS

George Huntington. *With the class of 1863*
Frederick William Jones. *With the class of 1896*

HONORARY DEGREES

MASTER OF ARTS

FRED DAVIS ALDRICH
SAM WALTER FOSS
JAMES HENRY HIGGINS

DOCTOR OF DIVINITY

ALFRED WILLIAMS ANTHONY
CORNELIUS SAMUEL SAVAGE
WILLIS FRYE THOMAS

DOCTOR OF SCIENCE

CHARLES SUMNER CHAPIN

DOCTOR OF LAWS

HENRY SMITH PRITCHETT

LIST OF STUDENTS

GRADUATES

Sarah MacCormack Algeo — *Providence*
A.B. (*Brown University*) 1899. French, Romance Languages. Registered candidate for A.M.

Carol Aronovici — *Providence*
B.S.A. (*Cornell University*); Litt.B. (*Roumania Gymnasium*) 1905. Social Science, Biology. Registered candidate for Ph.D.

Charles Raymond Austin — *Providence*
A.B. (*Brown University*) 1902; A.M. 1903. Latin, English, Greek. Registered candidate for Ph.D.

Samuel Jacob Beeber — *Worcester, Mass.*
A.B. (*Brown University*) 1908. Education, Chemistry. Enrolled candidate for A.M.

Charles Barrows Bennett — *Providence*
Ph.B. (*Brown University*) 1906. Biology, Organic Chemistry. Enrolled candidate for Ph.D.

Harriet White Blake — *Providence*
A.B. (*Smith College*) 1886; A.M. (*Brown University*) 1894. History, Social Science.

Ralph Philip Boas — *Providence*
A.B. (*Brown University*) 1908. English, French. Enrolled candidate for A.M.

Marion Hamilton Bonn — *Providence*
Ph.B. (*Brown University*) 1905. Mathematics, Physics, German. Enrolled candidate for A.M.

Louise Adams Bourne — *Providence*
A.B. (*Brown University*) 1908. German, French. Enrolled candidate for A.M.

Frederick May Boyce — *Providence*
Chemistry, Physics. Registered candidate for A.M.

William Alva Brady — *Narragansett Pier*
Ph.B. (*Brown University*) 1894. History. Registered candidate for Ph.D.

Laura Cindarella Brant — *Nooseneck*
A.B. (*Brown University*) 1908. Physics, Mathematics. Enrolled candidate for A.M.

Rosa Ellen Brant — *Nooseneck*
A.B. (*Brown University*) 1908. History, Mathematics. Enrolled candidate for A.M.

Charles Lewis Brightman — *Fall River, Mass.*
Physics, Astronomy. Enrolled candidate for A.M.

William Ward Browne — *West Lynn, Mass.*
A.B. (*Brown University*) 1908. Biology. Enrolled candidate for A.M.

Jessie Valentine Budlong — *Providence*
Litt.B. (*Smith College*) 1908. Romance Languages. Registered candidate for A.M.

Samuel James Cann — *Elliots, P. E. Island*
A.B. (*Acadia University*) 1902; D.B. (*Newton Theological Institution*) 1905. Philosophy. Registered candidate for A.M.

Lydia Gardiner Chace — *Providence*
Ph.B. (*Brown University*) 1900; A.M. 1901. Social Science.

Gertrude Mary Clark *Providence*
A.B. (*Brown University*) 1907. Education. Enrolled candidate for A.M.

Paul Franklin Clark *Providence*
Ph.B. (*Brown University*) 1904; A.M. 1905. Bacteriology, Biology. Enrolled candidate for Ph.D.

Harry Duffield Clough *New Bedford, Mass.*
A.B. (*Brown University*) 1908. Biology. Enrolled candidate for A.M.

Marion Shirley Cole *Bristol*
Ph.B. (*Brown University*) 1907. Education. Enrolled candidate for A.M.

Harry Wright Collins *Pawtucket*
A.B. (*Brown University*) 1907. German, Education. Enrolled candidate for A.M.

Elizabeth Robinson Crapon *Providence*
A.B. (*Brown University*) 1907. Botany.

Earle Bennett Cross *Providence*
A.B. (*Brown University*) 1905; A.M. 1907. Biblical Literature and History of Old Testament, Biblical Literature and History of New Testament. Enrolled candidate for Ph.D.

Edgar James Curry *Providence*
A.B. (*Ohio Wesleyan University*) 1901; D.B. (*Drew Theological Seminary*) 1904; A.M. (*New York University*) 1905. Philosophy, History. Enrolled candidate for Ph.D.

Nelson Clark Dale *Pittsfield, Mass.*
Sc.B. (*Middlebury College*) 1903. Geology. Enrolled candidate for A.M.

Agnes Sanborn Dana *Providence*
A.B. (*Wellesley College*) 1908. English, Education. Enrolled candidate for A.M.

Walter William Deckard *Arlington*
Sc.B. (*Rio Grande College*) 1893; A.B. and D.B. (*Hillsdale College*) 1899. Political and Social Science, Philosophy. Registered candidate for Ph.D.

Theodore Everett Dexter *Central Falls*
A.B. (*Brown University*) 1898. Political and Social Science. Enrolled candidate for A.M.

Jennie Foster Emerson *East Braintree, Mass.*
A.B. (*Smith College*) 1902. Education. Registered candidate for A.M.

Henry Englander *Providence*
A.B. (*University of Cincinnati*) 1901; A.M. (*Brown University*) 1906. Hebrew, Greek. Enrolled candidate for Ph.D.

Maude Farnum *Providence*
Ph.B. (*Brown University*) 1902; A.M. 1905. Social Science.

Robert Franklin Field *Providence*
A.B. (*Brown University*) 1906; A.M. 1907. Physics, Engineering. Enrolled candidate for Sc.M.

Lida Montfort Fowler *Providence*
A.B. (*Brown University*) 1908. Education. Registered candidate for A.M.

Charles Rivers Frazer *Auburn, Ala.*
A.B. (*Shaw University*) 1900; A.B. (*University of Chicago*) 1906. French. Enrolled candidate for A.M. *in absentia.*

Robert Jaquith Fuller *North Attleboro, Mass.*
A.B. (*Brown University*) 1898. Social and Political Science, Philosophy and Education. Enrolled candidate for A.M.

Louis John Gillespie *Manchester, N.H.*
Ph.B. (*Brown University*) 1908. Biology, Physics. Enrolled candidate for Sc.M.

Cardinal Leonidas Goodwin *Lyndonville, Vt.*
A.B. (*Brown University*) 1905. History. Enrolled candidate for A.M.

Emma Helena Gregory *Providence*
A.B. (*Wellesley College*) 1891; A.M. (*Brown University*) 1901. Greek.

Harry Delbert Hanna *Cranston*
A.B. (*Washington and Jefferson College*) 1896; D.B. (*Allegheny Theological Seminary*) 1899. Social Science.

Benjamin Louis Antoine Hénin *France*
B. ès L. (*University of France*) 1889; LL.B. 1907. Education, Romance Language, Philosophy, English. Registered candidate for A.M.

Hattie Maria Holt *Providence*
A.B. (*Brown University*) 1908. Education, History, Latin. Enrolled candidate for A.M.

Milton Bicknell Hunt *Charleston, Me.*
Social Science, Political Economy, History. Enrolled candidate for A.M.

Sarah Ann Ide *Providence*
A.B. (*Brown University*) 1908. Education. Registered candidate for A.M.

Madeleine Katherine Johnson *Providence*
Ph.B. (*Brown University*) 1908. Education. Registered candidate for A.M.

Bernard Aloysius Keenan *Pawtucket*
German, Education, English, Romance Languages. Enrolled candidate for A.M.

Frederick George Keyes *Rochester, N.Y.*
Sc.B. (*Rhode Island College*) 1906; Sc.M. (*Brown University*) 1907. Chemistry, Biology. Enrolled candidate for Ph.D.

Maybelle Gifford Kingsbury *Providence*
A.B. (*Smith College*) 1908. Education. Registered candidate for A.M.

George Franklin Krause *Lebanon, Pa.*
A.B. (*Brown University*) 1906. English Literature, German, Spanish. Registered candidate for A.M. *in absentia.*

Frank Edwin Lakey *Allston, Mass.*
A.B. (*Brown University*) 1894; A.M. 1900. Social Science, Political Science, Education. Registered candidate for Ph.D.

William Setchel Learned *Providence*
A.B. (*Brown University*) 1897; A.M. 1908. Social and Political Science, History. Registered candidate for Ph.D.

Harold William Lyall *Lawrence, Mass.*
A.B. (*Brown University*) 1908. Biology. Enrolled candidate for A.M.

Rachel Gertrude McAuliffe *Providence*
A.B. (*Brown University*) 1907. Education, History. Enrolled candidate for A.M.

Alice Rhodes Martin *Warren*
Ph.B. (*Brown University*) 1907. Astronomy. Enrolled candidate for A.M.

Alfred Joseph Maryott *Valley Falls*
A.B. (*Brown University*) 1908. Education. Registered candidate for A.M.

Jacob Alexander Mattuck *Worcester, Mass.*
Ph.B. (*Brown University*) 1904; A.M. 1905. Sociology, Political Science. Enrolled candidate for Ph.D.

Richard Hagan Miller *Providence*
Ph.B. (*Brown University*) 1907. Bacteriology, Biology. Enrolled candidate for A.M. Registered candidate for Ph.D.

Clyde Rothwell Moody *Glendale, Cal.*
A.B. (*Baylor University*) 1908. Sociology, Biblical Literature, English. Enrolled candidate for A.M.

William Jackson Nelson *Prairieville, Texas*
A.B. (*Baylor University*) 1907. Biblical Literature, History. Registered candidate for Ph.D.

George Barrows Obear *Lynn, Mass.*
Sc.B. (*Massachusetts Institute of Technology*) 1903; Sc.M. (*Brown University*) 1905. Physics, Mathematics. Enrolled candidate for Ph.D.

Alfred John Olsen, Jr. *Providence*
Ph.B. (*Brown University*) 1908. Chemistry. Registered candidate for A.M.

Henry Robinson Palmer *Stonington, Ct.*
A.B. (*Brown University*) 1890. History of Art. Enrolled candidate for A.M.

John Hector Palmer *Lonsdale*
A.B. (*Brown University*) 1904. Biblical Literature. Enrolled candidate for A.M.

Marion Edwards Park *Oberlin, Ohio*
A.B. (*Bryn Mawr College*) 1898. Greek. Registered candidate for A.M.

Earle Winfield Peckham *Providence*
A.B. (*Brown University*) 1908. Education, Latin. Enrolled candidate for A.M.

Thomas Richard Peede *Central Falls*
Ph.B. (*Amity College*) 1885; A.M. (*Brown University*) 1908. Philosophy, Education, Biology. Enrolled candidate for Ph.D.

Katherine Upham Peirce *Providence*
A.B. (*Vassar College*) 1889. History. Enrolled candidate for A.M.

Alice Manchester Potter *Providence*
A.B. (*Brown University*) 1908. Education.

Alice Ethel Presbrey *Providence*
A.B. (*Brown University*) 1908. Education. Registered candidate for A.M.

Harry Wolcott Robbins *Ballston Spa, N. Y.*
A.B. (*Brown University*) 1908; A.M. 1908. English, Sociology. Registered candidate for Ph.D.

William Nesbit Ross *Providence*
A.B. (*Brown University*) 1907; A.M. 1908. Chemistry.

Wilmarth Young Seymour *Warren*
A.B. (*Brown University*) 1908. Biology, Chemistry. Enrolled candidate for A.M.

Sarah Ida Shapiro *Providence*
Ph.B. (*Brown University*) 1907. Education, Social Science, Ethics. Enrolled candidate for A.M.

Walter Cyrus Sherman *Providence*
A.B. (*Brown University*) 1897. History, English. Registered candidate for A.M.

George Herbert Sherwood *New Rochelle, N. Y.*
A.B. (*Brown University*) 1898; A.M. 1899. Biology, Physiology. Enrolled candidate for Ph.D.

Lester Burrell Shippee *Providence*
A.B. (*Brown University*) 1903; A.M. 1904. History. Enrolled candidate for Ph.D.

Eunice Clara Smith *Pawtucket*
A.B. (*Brown University*) 1907. English, Art, German. Enrolled candidate for A.M.

David Wilkinson Smith *Manville*
A.B. (*Brown University*) 1907; A.M. 1907. Greek, Latin. Enrolled candidate for Ph.D.

Marjorie Whitney Stevens *Providence*
A.B. (*Brown University*) 1908. Education. Registered candidate for A.M.

Beatrice Anna Sturdy *Providence*
A.B. (*Brown University*) 1908. Education, History. Enrolled candidate for A.M.

Walter Edward Sullivan *Houlton, Me.*
A.B. (*Bates College*) 1907. Biology. Enrolled candidate for A.M.

Leslie Earl Swain *Providence*
A.B. (*Brown University*) 1908. Education. Enrolled candidate for A.M.

Edith Marion Tillinghast *Providence*
Ph.B. (*Brown University*) 1904; A.M. 1905. Sociology.

Raymond Frank Tift *Somerville, Mass.*
Ph.B. (*Brown University*) 1908. English, Romance Languages. Enrolled candidate for A.M.

Roy Towne *Valley Falls*
A.B. (*Brown University*) 1905. Education. Enrolled candidate for A.M.

Henry Carroll Tracy *Whitman, Mass.*
A.B. (*Dartmouth College*) 1902; A.M. (*Brown University*) 1905. Biology, Organic Chemistry, Physiology. Enrolled candidate for Ph.D.

Chester Campbell Waters *South Swansea, Mass.*
A.B. (*Brown University*) 1905; A.M. 1906. Social and Political Science, Economics. Enrolled candidate for Ph.D.

Ernest Milton Watson *Providence*
Ph.B. (*Brown University*) 1907. Bacteriology, Biology. Enrolled candidate for A.M. Registered candidate for Ph.D.

Peter Augustus Worsley *Providence*
A.B. (*Brown University*) 1908. Geology, Biology, German. Enrolled candidate for A.M.

Grey Huntingford Wyman *Lawrence, Mass.*
A.B. (*Brown University*) 1908. Latin, Social and Political Science, Education. Enrolled candidate for A.M.

Arthur Lincoln Young *Uxbridge, Mass.*
A.B. (*Brown University*) 1904. Education, Organic Chemistry. Enrolled candidate for A.M.

SENIORS: CLASS OF 1909

NAME	RESIDENCE
Jarvis Howard Alger	*Westerly*
Thomas Parker Ayer	*Manchester, N. H.*

NAME	RESIDENCE
Herbert Remington Ayler	*Portsmouth*
George Warren Babcock	*Fall River, Mass.*
Harold Pemberton Babcock	*Providence*
Herbert Luther Barrett	*Jackson, Miss.*
Robert Kershaw Bennett	*Killingly, Ct.*
Leon Henry Beytes	*Plymouth, Mass.*
William Bichwit	*Providence*
Irving Whitman Bogle	*Fall River, Mass.*
Clarence William Bosworth	*Georgiaville*
Frederick May Boyce	*Providence*
Charles Walter Briggs, Jr.	*Norwich, Ct.*
Charles Lewis Brightman	*Fall River, Mass.*
Fred Reed Budlong	*Providence*
William Potter Buffum, Jr.	*Newport*
Stuart Russell Bugbee	*North Attleboro, Mass.*
John Wymond Miller Bunker	*Newton Centre, Mass.*
Philip Burbank	*Providence*
Raymond Buss	*Acworth, N. H.*
Walter Hillman Butler	*Rockland, Me.*
Charles Frederick Butterworth	*Pottersville, Mass.*
Hugh Fred Cameron	*Providence*
George Henry Campbell	*Providence*
Amasa Manton Chace	*Newport*
Henry Sharpe Chafee	*Providence*
Robert Foster Chambers	*Providence*
Malcolm Doyle Champlin	*Providence*
Emerson Lawrence Chandler	*New London, Ct.*
Newton Gladding Chase	*Brooklyn, N. Y.*
Joseph Church, Jr.	*Tiverton*
Donald Graham Clark	*Providence*
Richard Alexander Colmetz	*Providence*
Earl Biddle Conklin	*Canton, Pa.*
William Matthew Connell	*Edgewood*
James Greenan Connolly	*Pawtucket*
William Michael Conroy	*Fall River, Mass.*
Harry Francis Cook	*Westerly*
Albert Moses Cristy	*Providence*
Moses Leverock Crossley	*Providence*
Robert Sylvester Curley	*Upton, Mass.*
Harold Redwood Curtis	*East Providence*
James Davis Dean	*Waverly, Pa.*
Frank Edward Dennie	*Brockton, Mass.*
James Payson Dixon, Jr.	*New London, N. H.*

NAME	RESIDENCE
William Pendleton Dodge	*Westerly*
Herbert Richardson Ede	*Fairhaven, Mass.*
Harold Bowen Edmundson	*Thornton*
Lawrence Sanford Elliot	*Attleboro, Mass.*
Paul Ellsworth Everett	*Franklin, Mass.*
Edward William Everson	*Providence*
John Addison Foote	*Simpson, Kans.*
Henry Edwin Fowler	*Wickford*
Walter Mason Gager	*Providence*
Thomas Harper Goodspeed	*Chicago, Ill.*
Adolph Gorman	*Providence*
Everett Arnold Greene	*Newton Centre, Mass.*
Ernest Russell Hager	*Auburn*
Chester Sargent Hardy	*Fitchburg, Mass.*
Albert Harkness	*Providence*
Daniel Joseph Harrigan	*Newburyport, Mass.*
Walter Herman Harris	*Providence*
George Henry Henderson	*Woonsocket*
Harold Griffith High	*Providence*
Edward James Hollen	*Providence*
Charles Evans Hughes, Jr.	*New York, N. Y.*
Milton Bicknell Hunt	*Charleston, Me.*
George Thomas Huxford	*Edgartown, Mass.*
Will Clarence Ingalls, Jr.	*Arlington, N. J.*
Howard Kempton Jackson	*Woonsocket*
Clarence Richard Johnson	*Rumford*
Bernard Aloysius Keenan	*Pawtucket*
Arthur Joseph Kirley	*Sheldon, Vt.*
Harry Beaston Lake	*Port Norris, N. J.*
Harry Badger Lane	*New London, Ct.*
John Raymond Lapham	*West Medway, Mass.*
Lawrence Lyle Larrabee	*Petersburg, Va.*
Julius Lasker	*Providence*
Burton Fred Latham	*Oneida, N. Y.*
Albert Eddy Leach	*North Raynham, Mass.*
Ivory Littlefield	*Providence*
Edward Humphrey McCarthy	*Providence*
Louis Augustine McCoy	*Pawtucket*
Omar Roscoe McCoy	*Providence*
Edwin Bloch Mayer	*Chicago, Ill.*
John Wesley Mayhew	*Edgartown, Mass.*
Lewis Hamilton Meader, Jr.	*Providence*
William Davis Miller	*Providence*

NAME	RESIDENCE
Robert Ewing Mitchell	*Providence*
William Edwin Barbour Mitchell	*Westerly*
William Pleasants Mitchell	*Trenton, N. J.*
Edmond Everett Moffett	*Saylesville*
Warren Carney Norton	*Portland, Me.*
Chester Linwood Nourse	*Newburyport, Mass.*
Henry Nuttall	*Fall River, Mass.*
Irving Wooster Patterson	*Waterville, Ct.*
Theodore Lochart Paul	*Sherborn, Mass.*
Albert Harkness Poland	*Providence*
Joseph Price	*Providence*
Wendell Phillips Raymond	*Rockland, Mass.*
Lawrence Richmond	*Providence*
Alberti Roberts	*West Coxsackie, N. Y.*
William Crawford Ross	*Portland, Me.*
Allen Oscar Seabury	*Little Compton*
Henry Boyd Selleck	*Providence*
Albert Edward Shaw	*Webster, Mass.*
Henry William Shay	*Fall River, Mass.*
Herbert Montague Sherwood	*Providence*
Bertram Smith	*Hillsboro Bridge, N. H.*
Earl Robert Smith	*Franklinville, N. Y.*
Harold Bertram Smith	*Taunton, Mass.*
Harry Frederick Smith, Jr.	*New York, N. Y.*
Harry Bingham Stearns	*Wilmot, N. H.*
Henry Jennison Blakely Stitt	*Saxton's River, Vt.*
Donald Leroy Stone	*Indianapolis, Ind.*
Guy Forney Strickler	*Lebanon, Pa.*
Herbert Knapp Sturdy, Jr.	*Attleboro Falls, Mass.*
Harold Greene Sturgis	*Uniontown, Pa.*
John Joseph Sullivan	*Cranston*
Robert James Banigan Sullivan	*Providence*
Harold Anthony Sweetland	*Providence*
George Francis Sykes	*Suffield, Ct.*
Harold Brooks Tanner	*Providence*
Frank Carter Taylor	*Providence*
Selwyn Garfield Tinkham	*New Bedford, Mass.*
Henry Richard Von Bargen	*Brooklyn, N. Y.*
Charles Henry Ward, 2d	*Middletown*
Charles Fletcher Warren	*Plainville, Mass.*
Robert Campbell Weed	*Drownville*
John Hazard Wells	*Kingston*
George Franklin Weston, Jr.	*Providence*

NAME	RESIDENCE
Chauncey Earle Wheeler	*Plainville, Mass.*
Clarence Milton Whipple	*Mapleville*
Robert Holmes Whitmarsh	*Providence*
Frank Allen Wightman	*Warren*
Louis Paul Willemin	*Providence*
Norman Harris Williams	*Moodus, Ct.*
Sydney Wilmot	*Providence*
Harry Draper Winsor	*Providence*
Hovhannes Zovigian	*Pawtucket*

JUNIORS: CLASS OF 1910

Kenneth Field Albee	*Wollaston, Mass.*
James Madison Aldrich	*Springfield, Vt.*
Richard Day Allen	*Pawtucket*
Paul George Wilfred Anderson	*Roslindale, Mass.*
William Coggeshall Anthony	*South Portsmouth*
Carl Winslow Atwood	*Waltham, Mass.*
Donald Sturges Babcock	*Providence*
Gaius Humphrey Barrett	*Waterford, Ct.*
Maxwell Barus	*Providence*
Frederic Otto Berge	*Tampico, Ill.*
Joseph Eli Bliss	*Providence*
Afley Leonel Brett	*South Braintree, Mass.*
Harold Parker Brown	*Providence*
William Bailey Bruce	*Warrenton, N. C.*
Harold Stephen Bucklin	*Pawtucket*
Hudson Coe Burr	*Plainfield, N. J.*
Walter Chester Cameron	*Auburn*
George Wyman Carroll, Jr.	*Norwich, Ct.*
Max Howard Carson	*Providence*
George Everett Caswell	*New Bedford, Mass.*
Earle Francis Caton	*Edgewood*
Leonidas Franklin Clark	*Herkimer, N. Y.*
Robert Irving Clarke	*Fall River, Mass.*
Eliot Loomis Collins	*New York, N. Y.*
Andrew Burroughs Comstock	*Providence*
Willis Garrett Conant	*Dover, N. J.*
Herman Copeland	*Providence*
Allan David Creelman	*Suffield, Ct.*
Joseph Henry Cull	*Providence*
Henry Chester Damon	*Fall River, Mass.*
Arthur Daniel Draper	*Rochdale, Mass.*
Albert Farnsworth	*Lawrence, Mass.*

NAME	RESIDENCE
John Prescott Farnsworth, Jr.	*Providence*
Ralph Beach Farnum	*Providence*
Albert Potter Farwell	*Providence*
Raymond Edward Fenner	*Providence*
Gabriel Finkelstein	*Providence*
John Howard Forrist	*Providence*
William Belfield Freeman	*Providence*
Everett Percy Frohock	*Camden, Me.*
Harold Maurice Frost	*Tiverton*
William Edward Gannon	*New York, N. Y.*
Walter Edward Goodwin	*Taunton, Mass.*
John Lawrence Gorman	*Ballston Spa, N. Y.*
Raymond Keyes Gould	*East Greenwich*
Winfield Wardwell Greene	*North Wilbraham, Mass.*
James Alexander Hall	*Providence*
Arthur Mathias Ham	*Winter Hill, Mass.*
John Patrick Hartigan	*Providence*
Walter Brooks Henderson	*Jamaica, West Indies*
John Collins Aloysius Hennessy	*Brooklyn, N. Y.*
Henry Horace Hibbs, Jr.	*Williamsburg, Ky.*
Albert Wallace Hills	*South Columbus, Miss.*
Norman Edward Holt	*Providence*
Earle Moulton Horton	*Providence*
Elmer Stuart Horton	*Providence*
Paul Balcom Howland	*Providence*
Roland Ellis Hutchins	*Stoneham, Mass.*
Malcolm Royce Jeffris	*Jonesville, Wis.*
Warren Clifford Johnson	*Nashua, N. H.*
Seth Maurice Kalberg	*New Britain, Ct.*
Joseph Berry Keenan	*Pawtucket*
George Holmes Kelley	*Providence*
William Kent	*Providence*
Maxwell Krause	*Lebanon, Pa.*
Harold Dane L'Amoureux	*Pawtucket*
William Harkins Lynn	*Providence*
Gough Decatur McDaniels	*Baltimore, Md.*
Harold St. Clair McIntosh	*Providence*
Frank Le Forrest Mansur	*Bradford, Mass.*
Edward Holton Mason, Jr.	*Providence*
Keith Mercer	*Providence*
Merritt Manville Meredith	*Atlantic, Ia.*
Benjamin Dwight Miller	*Newton Centre, Mass.*
Ernest Mariett Morris	*Fall River, Mass.*

NAME	RESIDENCE
John Henry Morrisey, Jr.	*Bristol*
Alexander Wickliffe Muir	*Newton, N. J.*
Robert Lewis Munson	*South Dartmouth, Mass.*
William Robert Nash	*New Britain, Ct.*
William Charles Oakes	*Ischua, N. Y.*
Albert Joseph O'Connor	*Pawtucket*
Frank Joseph O'Donnell	*Bridgewater, Mass.*
Harry Lees Oldfield	*Saylesville*
Henry Bernard O'Neil	*Keene, N. H.*
Joseph Edwin Oslin	*Providence*
Stephen David Paddock	*Providence*
Ralph Mallory Palmer	*Providence*
Albert Nathaniel Peterson	*Providence*
George Luther Pierce, Jr.	*Providence*
Charles Addison Post	*Clinton, Ct.*
Winfield Cary Potter	*Central Falls*
Jeremiah Hooper Prescott	*Providence*
Stephen Donald Pyle, Jr.	*Brooklyn, N. Y.*
Carl Ruehl Raquet	*Newark, N. J.*
Ralph Weeden Reckling	*Narragansett Pier*
Clarence Richards	*Providence*
Thornton Munroe Richards	*Newton, Mass.*
George Arthur Round	*Norton, Mass.*
Lester Angell Round	*Clayville*
Isaac Sylvester Rowe	*Newton Centre, Mass.*
Robert Aloysius Scally	*Stoneham, Mass.*
Robert Francis Seybolt	*West New Brighton, N. Y.*
Edward John Shaeffer	*Ballston Spa, N. Y.*
Israel Remington Sheldon	*Pawtuxet*
William Tracy Shields	*Providence*
James Chute Simpson	*Dorchester, Mass.*
James Smalley, Jr.	*Fall River*
Edward Sheldon Spicer	*Providence*
Howard Alden Straffin	*Brockton, Mass.*
Harold Avery Swaffield	*Lawrence, Mass.*
William Sheldon Sweet	*Providence*
Thomas Russell Symmes	*Stoneham, Mass.*
Howard Alfred Taber	*Providence*
Eddy Warren Tandy	*Gardner, Mass.*
Henry Bangs Thacher	*Brockton, Mass.*
Fred Louis Trover	*Beaver Falls, Pa.*
James Varnum Turner	*Providence*
Clifton Henry Walcott	*Leominster, Mass.*

NAME	RESIDENCE
Lawrence Sidney Walker	*Providence*
Edward Walter Wall	*Easthampton, Mass.*
Clifton Berkely Ward	*Middletown*
Henry Max Webber	*Hillsboro Bridge, N. H.*
Alanson Knox Westervelt	*Churdan, Ia.*
Franklin Lyron Wheeler	*Shelton, Ct.*
Harold Leslie Wheeler	*Watertown, Mass.*
Earl Herbert Williams	*Auburn*
Frank Walter Williams	*Farmington, N. C.*
Ralph Henry Wilmarth	*Attleboro, Mass.*
Claude Maker Wood	*Providence*
Martin Harry Yorganjian	*Providence*
Alan Jewett Young	*Newton Centre, Mass.*

SOPHOMORES : CLASS OF 1911

Leonard Hodgson Adams	*Claremont, N. H.*
Edward Bartlett Allen	*Warwick*
John Albert Anderson	*Providence*
Paul Appleton	*Providence*
James Coutts Archie	*Westerly*
Earle Bernon Arnold	*North Scituate*
Vernon Edgar Babington	*Cranston*
Matthias Wisen Baker, Jr.	*Providence*
Charles Archilaus Barry	*Port Huron, Mich.*
James Henry Beattie	*Brunswick, Vt.*
Joshua Beliavsky	*Providence*
Edgar Paul Bengert	*Cleveland, O.*
Albert Arnold Bennett, Jr.	*Providence*
Robert Wellington Bingham, Jr.	*East Haddam, Ct.*
Raymond Wilson Bissell	*Salem, Mass.*
Earle Francis Bliss	*Attleboro, Mass.*
Harold Borden Bliss	*Barrington*
Charles Harold Blomberg	*Brooklyn, N. Y.*
Perley Francis Blood	*Hudson, N. H.*
Edwin Carpenter Bosworth	*Foxboro, Mass.*
Charles Barrett Bowne	*Poughkeepsie, N. Y.*
Andrew Lyndon Breckenridge	*Providence*
John Bernard Brennan, Jr.	*Providence*
Wendell Stimpson Brown	*Providence*
Adolph Ferdinand Bruenner	*Brooklyn, N. Y.*
Franklin Abbott Buck	*Mansfield, Mass.*
Henry Morgan Burke	*Providence*
Chester Thomas Calder	*Providence*

NAME	RESIDENCE
Robert Henry Munson Canfield	*Bridgeport, Ct.*
Edward King Carley	*Newport*
Everett Shearman Carpenter	*Cumberland*
Benjamin Harold Cate	*Providence*
Clifford John Cawley	*Providence*
Herbert Frederick Cawthorne	*Leominster, Mass.*
Linwood Collins Chase	*Plainville, Mass.*
Robert Dexter Chase	*Pawtucket*
John Osborne Chesley	*Providence*
Chester Irving Christie	*New York, N. Y.*
Arthur Chessman Clark	*Newton Centre, Mass.*
John Clarence Clark	*Little Falls, N. Y.*
Clarence Sawyer Cleasby	*Providence*
Herbert Rice Coffin	*Milford, Mass.*
Louis Robinson Collins	*Laconia, N. H.*
Morris Ferguson Conant	*Pawtucket*
Herbert Ray Connor	*Alameda, Cal.*
Henry Conyers	*Arlington*
Alfred Elwood Corp	*Providence*
Philip Chadsey Curtis	*Pawtucket*
Earl Balcom Dane	*Providence*
Earl Philip Dawley	*Providence*
Silas Benjamin Dishman, Jr.	*Barbourville, Ky.*
Earl Raymond Donle	*Providence*
Edwin Arthur Dow	*Eden Park*
Joseph Ferretti Driscoll	*Ballston Spa, N. Y.*
Frank Otis Drowne	*Pawtucket*
Herbert Eddy Easton	*Central Falls*
Ledro Eckford Ehle	*Canajoharie, N. Y.*
James Henry Eldredge	*East Greenwich*
John Ervin, Jr.	*Pawtucket*
Ernest Sherman Fitz	*Saylesville*
Joseph Edward Fletcher, Jr.	*Bristol*
Herbert Briggs Francis	*Taunton, Mass.*
Michael Henry Gallagher	*Wellesley, Mass.*
Lawrence Gardner	*Portland, Me.*
Robert Nichols Gardner	*Portland, Me.*
Guy Harold Gifford	*Providence*
William Clement Giles	*Springfield, Mass.*
Frederick Richmond Gleason	*Brooklyn, N. Y.*
Darius Goff	*Pawtucket*
Matthew Gormly, Jr.	*Providence*
Ernest Linwood Gray	*North Fairfield, Me.*

NAME	RESIDENCE
Augustus Joseph Hampton	*Pawtucket*
Walter Gardiner Harrington	*Providence*
Herman Hartwell Haskins	*Winchester, Mass.*
Wright David Heydon	*Centreville*
Jacob Freeman High	*Bedminster, Pa.*
John Edward Hinckley	*Barnstable, Mass.*
Samuel Morey Holman, Jr.	*Attleboro, Mass.*
Jacob Mark Howarth	*Swansea, Mass.*
Harry Robinson Howe	*Mansfield, Mass.*
Paul Denckla Howe	*Philadelphia, Pa.*
Howard Greenough Hubbard	*Providence*
Earl Edmund Jackson	*Providence*
Seward Thompson Jarvis	*Somerville, Mass.*
Frederic Marshall Jencks	*West Barrington*
Clare Steele Johnston	*Youngstown, O.*
Gardner Hunter Jones	*Lakeport, N. H.*
Cedric Freeman Joslin	*Portland, Me.*
John Vincent Keily	*Providence*
Walter Edward Kelley	*Roxbury, Mass.*
Earl Barney Kent	*Attleboro, Mass.*
Arthur Kiernan	*Providence*
John Baptist Kindelan	*New York, N. Y.*
Charles Manton King	*Mt. Hermon, Mass.*
Ambrose Joseph Kinion	*Valley Falls*
Ira Winsor Knight	*Auburn*
James Charles Larkin	*Pittsfield, Mass.*
Samuel May Lederer	*Providence*
Charles Leon Leland	*Grafton, Mass.*
Warren Bliss Luther	*Attleboro, Mass.*
James Russell McKay	*Youngstown, O.*
Percy Douglas McPhee	*Newton, Mass.*
John Charles Mayer	*New York, N. Y.*
Robert James Yorkston Meckel	*St. Louis, Mo.*
John McGill Montz	*Charlottesville, Va.*
Winfield Scott Morrison	*Ballston Spa, N. Y.*
Courtland Sawin Mudge	*Providence*
Harold Edward Muir	*Newton, N. J.*
Frederick Leo Mulcahy	*Lawrence, Mass.*
George Francis Murnan	*Herkimer, N. Y.*
Robert Cushman Murphy	*Mt. Sinai, N. Y.*
Lewis Alfred Newfield	*Brooklyn, N. Y.*
Joseph Serpa Neves	*Providence*
Christopher Aloysius Nolan	*Providence*

NAME	RESIDENCE
James Timothy O'Neil	*Amesbury, Mass.*
Harry Alfred Ormes	*Upton, Mass.*
Arthur Palmer	*Worcester, Mass.*
Harry Arthur Pantaenius	*Morristown, N. J.*
Samuel Ryder Parks	*Pawtucket*
Walter Howard Partington	*Central Falls*
Beverly Francis Perry	*Syracuse, N. Y.*
Irving Wilbert Pettengill	*Haverhill, Mass.*
Leroy Gardiner Pilling	*Providence*
David James Purdie	*Providence*
Thomas Henry Quigley	*Taunton, Mass.*
Joseph Ernest Raia	*Providence*
David Albert Reid	*Providence*
Cyril Kelly Richards	*Trenton, N. J.*
Maurice Stanley Ricker	*Bangor, Me.*
Thomas Howard Roalf	*Keene, N. H.*
Roger Sherman Robinson	*Laconia, N. H.*
Fremont Emerson Roper	*Riverpoint*
Julius Adolph Saacke	*Providence*
Abram Nathan Sadofsky	*North Tarrytown, N. Y.*
John William Seaton	*Utica, N. Y.*
Judah Semonoff	*Providence*
Robert Godfrey Shaw	*Providence*
Lewis Alexander Shepherd	*Springfield, Mass.*
Warren Andrew Sherman	*Providence*
Charles Peck Sisson	*Providence*
Russell Eyre Sisson	*Providence*
Schuyler Merritt Skelding	*Stamford, Ct.*
Robert Fulton Skillings	*Portland, Me.*
Brenton Greene Smith	*New York, N. Y.*
Warren Hutchinson Smith	*Lincoln*
Maurice Youngman Snyder	*Pleasantville, N. J.*
Arthur Edgar Staff	*Campello, Mass.*
Arthur Henry Sterling	*Silver Creek, N. Y.*
Woodbury Sweetzer Stowell	*Bristol*
George Christian Stucker	*Providence*
Arthur Sundlun	*Providence*
George Frederick Swanson	*Providence*
Albert Whitman Sweet	*Providence*
Wendell Richardson Swint	*East Boston, Mass.*
Raymond Samuel Taylor	*Waltham, Mass.*
Erwin Clayberg Tompkins	*Avon, Ill.*
Warren Van Kirk	*Jackson, Mich.*

NAME	RESIDENCE
Harold Wallace	*Chicago, Ill.*
Morris Jacob Wessel	*Port Norris, N. J.*
Harold Alexander Wilcox	*Providence*
Howard David Williams	*Cleveland, O.*
James Arthur Wilson	*Pawtucket*
John Raymond Winslow	*Barton, Vt.*
Joseph Timothy Witherow	*Pawtucket*
Allen Arthur Wood	*Providence*
Harold Powers Worthington	*Agawam, Mass.*
Ellis Laurie Yatman	*Providence*
Foster Verne Young	*Aylesford, N. S.*
Ray Durfee Young	*Silver Creek, N. Y.*
Joseph Zarmon	*Paterson, N. J.*

FRESHMEN : CLASS OF 1912

Edward August Adams	*Fort Dodge, Ia.*
George Augustus Adams	*Bradford, Mass.*
Herbert Engles Adams	*Provincetown, Mass.*
Richard Jay Adams	*Bloomfield, N. J.*
Walter Lewis Allen	*Providence*
Howard Baker Andrews	*Providence*
Ryland Benjamin Andrews	*Leominster, Mass.*
Willard Bullock Anthony	*Providence*
Charles Fulda Archambault	*Arctic*
William Martin Aspinwall	*Pawtucket*
Clarence Edwin Ayres	*Westfield, Mass.*
Joseph Banigan	*Providence*
Joseph Walter Bannan	*Providence*
Ernest Stratton Barker	*Bayonne, N. J.*
Harold Oakley Barker	*Stamford, Ct.*
Samuel Barr	*Moosup, Ct.*
Frank Clifford Barrows, Jr.	*New Bedford, Mass.*
Earle Walcott Bates	*South Weymouth, Mass.*
Kenly Smith Bell	*East Orange, N. J.*
Raymond Prescott Blake	*Springfield, Mass.*
Stuart Blake	*Lonsdale*
Edward Payson Blanchard	*Linwood, Mass.*
Albert Bliss	*Providence*
Eastwood Howard Boardman	*Central Falls*
Harold Schenck Borden-Smith	*Salem, N. Y.*
Orville Edward Bourne	*Rumford*
George William Brewster	*Auburndale, Mass.*
Frank Harold Briden	*Central Falls*

NAME	RESIDENCE
Philip Elliot Bronson	*Salem, N. J.*
Daniel Lucius Brown	*Norwich, Ct.*
John Watson Brown	*Providence*
Arthur Francis Buddington	*West Mystic, Ct.*
Hermon Carey Bumpus, Jr.	*New Rochelle, N. Y.*
Frederick Burgess, Jr.	*Garden City, N. Y.*
George Sargent Burgess	*Portland, Me.*
Warren Randolph Burgess	*Providence*
Carl Edmond Burnham	*Pawtucket*
Leroy Francis Burroughs	*Pawtucket*
Edgar Gibson Buzzell	*Chicago, Ill.*
Rogers Case	*Bristol*
Robert Gamble Caswell	*Wakefield*
Henry Richmond Chace, Jr.	*Providence*
Kipp Ingersoll Chace	*Flatbush, N. Y.*
Ralph Harold Chadwick	*Hillsboro, N. H.*
Frank Allen Chase	*Mansfield, Mass.*
Adolph Odin Christianson	*Boston, Mass.*
Walter Irving Clark	*North Attleboro, Mass.*
Alfred Samuel Cloues	*Warner, N. H.*
George Raymond Cobb	*Pawtucket*
Leo Cohen	*Providence*
Frank Charles Collins	*Laconia, N. H.*
Sheldon Chalkley Collins	*Great Barrington, Mass.*
Raymond Carpenter Colwell	*Olneyville*
Douglas Duval Corning	*Lynn, Mass.*
Herbert Leonard Cook	*Woonsocket*
Edward James Corrigan	*Suffield, Ct.*
Everett Thomas Cripps	*Providence*
Lloyd Roswell Cummings	*Bradford, N. H.*
William Walter Cummings	*Providence*
Ernest Merrill Daland	*Wakefield, Mass.*
Clarence Adelbert Davis	*East Killingly, Ct.*
William Learned Dealey	*Providence*
Robert Cloutman Dexter	*Dorchester, Mass.*
William Hovey Dinkins	*Selma, Ala.*
William Earl Dodge	*Block Island*
Lionel Victor Domin	*Providence*
Daniel Gerald Donovan	*Providence*
Ralph Sherwin Drury	*Fitchburg, Mass.*
Thomas Leo Dunn	*Fall River, Mass.*
Adelbert Charles Eastburn	*Yonkers, N. Y.*
James Cornelius Elms, Jr.	*East Orange, N. J.*

NAME	RESIDENCE
Walter Johnson Emmons	*Arlington*
Theodore Bryant Farnsworth	*Providence*
Howard Clinton Farwell	*Providence*
Edward Joseph Feeley	*Pawtucket*
Orrin Robinson Ferry	*Whitinsville, Mass.*
Malcolm Graham Fillmore	*Somerville, Mass.*
Wesley Charles Firtion	*Windsor Locks, Ct.*
Edward Grove Fletcher	*Providence*
Clarence LaForest Follansbee	*Laconia, N. H.*
Le Roy Seaver Foster	*Whitinsville, Mass.*
Paul Hart Francis	*Providence*
Clarence Frank Gifford	*Danielson, Ct.*
John Joseph Gilbert	*Woonsocket*
Anthony Joseph Gilfoil	*Providence*
Willard Fremont Gordon, Jr.	*Hermanville, Miss.*
Max Louis Grant	*Providence*
Allton Greene	*Providence*
Levi Chester Greenwood	*Gardner, Mass.*
Laurence Halliwell Gregson	*Newburyport, Mass.*
Abraham Harry Gretsch	*New York, N. Y.*
Joseph Dydrine Guillemette	*Pawtucket*
Edwin Rogers Handy	*Manville*
Raymond Preston Hawes	*Riverside*
Hoey Hennessy	*Brooklyn, N. Y.*
Rodney Williams Hewitt	*Lebanon, Ct.*
Preston Hart Hood	*Fall River, Mass.*
Victor Howard	*Providence*
Hawthorne Howland	*Pawtucket*
Harold Davis Hubbard	*East Milton, Mass.*
Clifton Morse Hull	*Edgewood*
Henry Valentine Humphrey	*Ballston Spa, N. Y.*
Joseph Bernard Humphrey	*Ballston Spa, N. Y.*
Ralph Gibney Hurlin	*Antrim, N. H.*
Shinzo Inomata	*Tokio, Japan*
Wellington LeRoy Jencks	*Providence*
Howard Prann Jones	*Suffield, Ct.*
Albert Jubitz	*Hoboken, N. J.*
Avedis Alexander Kalajian	*Providence*
J Sylvan Kaufman	*Dubuque, Ia.*
George Valentine Kendall	*St. Louis, Mo.*
Lowell Clapp Kendrick	*Brooklyn, N. Y.*
Harry Willey Kenney	*Arlington*
Arthur Edward Kenyon	*Providence*

NAME	RESIDENCE
Charles James Keppel	*Dorchester, Mass.*
Francis Xavier Keresey	*West Stockbridge, Mass.*
Ernest Irons Kilcup	*Providence*
Joseph Francis Kivlin	*North Attleboro, Mass.*
Charles Roland Klebes	*West Coxsackie, N. Y.*
Leo Bernard Kreutzer	*Providence*
Archibald Collins Ladner	*Springfield, Mass.*
George Woodward Langdon	*Newburyport, Mass.*
David Franklin Larkin	*Westerly*
Royal Willis Leith	*Lowell, Mass.*
Harold Dickins Livingstone	*Westerly*
Joseph McCormick	*Providence*
Jerome Francis Joseph McGehearty	*Providence*
Thomas Edward McGreen	*Providence*
John Francis McLaughlin	*Providence*
Howard Gove MacMillan	*Mapleville*
Francis Spink Madison	*East Greenwich*
Dennis Robert Mahoney	*Newton, Mass.*
Samuel Maker	*Providence*
Charles Ambrose Malloy	*Lambertville, N. J.*
Francis Aloysius Mangan	*Attleboro, Mass.*
Wiley Hammond Marble	*Worcester, Mass.*
Henry Gildersleeve Marsh	*Providence*
Romeo Raoul Martel	*Pawtucket*
Charles Clarence Maxson	*Westerly*
Lewis Leroy Mellor	*Guilford, Me.*
Francis Everett Miles	*Cambridge, Mass.*
Clarence Walker Miller	*Pawtucket*
Everett Howe Miller	*South Hadley Falls, Mass.*
Walter Percy Misch	*Providence*
Samuel Lyman Mitchell	*Segundo, Col.*
George Denny Moore	*Cheswold, Del.*
Franklin Randolph Morse	*Providence*
Nicholas Van Slyck Mumford	*Providence*
Dana Gardner Munro	*Madison, Wis.*
Kenneth Leland Nash	*South Weymouth, Mass.*
Samson Nathanson	*Central Falls*
Walter Chadwick Nelson	*Fall River, Mass.*
Arthur Franklin Newell	*Boston, Mass.*
Earl Hagadorn Noyes	*East Greenwich*
Fred Blanchard Oakes	*Pawtucket*
Joseph Harold Oates	*Providence*
Francis Dyer O'Connor	*Portland, Me.*

NAME	RESIDENCE
Delmar Burton Orcutt	*North Abington, Mass.*
Otto Carl Pahline	*East Providence*
Carlton Hall Parker	*North Attleboro, Mass.*
Earl Stanley Parker	*Providence*
Wyman Pendleton	*Youngstown, O.*
Earl Philo Perkins	*Providence*
Fred Clarence Perry	*Brockton, Mass.*
William Lester Phillips	*Auburn*
Albert Clifton Pierce	*Brockton, Mass.*
Mellen Howard Pingree	*Auburn, Me.*
Frederick William Pollitt	*Paterson, N. J.*
Francis Whitfield Post	*Brockton, Mass.*
Milledge Moses Purdy	*Wilton, N. H.*
Wilbur Bertram Purvis	*Norwich, Ct.*
Frederick George Rawlings	*Providence*
George Anton Repko	*New York, N. Y.*
Stephen John Repko	*New York, N. Y.*
James Vincent Ricci	*Providence*
Stephen Henry Richards	*Tarrytown, N. Y.*
Milton Elmer Roberts	*Somersworth, N. H.*
Walter Colburn Robertson	*Warwick*
William Henderson Robertson	*Lonsdale*
Harold Walter Rockwood	*Pawtucket*
Pearce Cooding Rodey	*Albuquerque, N. M.*
Harry Edward Roelke	*Frederick, Md.*
Warren Root	*Providence*
Edwin Maurice Rose	*Providence*
Maurice Rosen	*Taunton, Mass.*
Albert Curtis Ruger	*Providence*
Harold Preston Salisbury	*Providence*
Stacy Curtis Saunders	*West Medway, Mass.*
Frederic Charles Schmidt	*Providence*
William Frederick Scholze, Jr.	*Saylesville*
Adam Henry Seabrook	*Columbia, S. C.*
Frederick William Seagrave	*Slatersville*
Harry George Seidel	*Fitchburg, Mass.*
Arthur Girard Singsen	*Providence*
Edward Lawrence Singsen	*Providence*
Alan Arthur Slade	*Arlington, N. J.*
Albert Leonard Slade	*Touisset, Mass.*
Harold Everett Smiley	*Providence*
Albert Francis Smith	*East Haddam, Ct.*
Irving Russell Smith	*Arlington, N. J.*

NAME	RESIDENCE
Leon Edward Smith	*Block Island*
Charles Briggs Snell	*Fort Plain, N. Y.*
Ralph Bernard Solether	*Jerry City, O.*
Chester Warren Spaulding	*Poughkeepsie, N. Y.*
George Herbert Spencer	*East Greenwich*
Lucius Baldwin Spicer	*Groton, Ct.*
William Earl Sprackling	*Cleveland, O.*
Herbert Winter Stanley	*Plymouth, N. H.*
Hugh Elmer Stratton	*Suffield, Ct.*
Charles Francis Strickland	*East Greenwich*
Genfong Arthur Sun	*Shanghai, China*
Harry Melvin Sutton	*Keene, N. H.*
Kenneth James Tanner	*Providence*
Joseph Bayard Taylor	*Scarsdale, N. Y.*
Frederick Leonard Tedford	*Pocasset, Mass.*
Ernest Albert Tewksbury	*Middlefield, Ct.*
William James Tobin	*Bristol*
Edward Aloysius Toomey	*Taunton, Mass.*
John Von der Lieth	*Hoboken, N. J.*
Ferdinando Votta	*Providence*
Edward Emory Warner	*West Fitchburg, Mass.*
Walter Lester Waterman	*Mansfield, Mass.*
William Andrew Weidmann	*Arlington*
Warren Westcott	*Providence*
George Bennett Weston	*Wollaston, Mass.*
Howard Carlton White	*Providence*
Wayne Henry Whitman	*Washington*
Dudley Mellen Wilcox	*Plainfield, N. J.*
Allen Burnett Williams	*Riverside*
Alfred Howard Williamson	*Providence*
Robert Henry Wills	*Rochester, Mass.*
Richard Bartley Wilson	*Youngstown, O.*
John Tracey Winterich	*Providence*
Herbert Edward Wolfe	*West Mystic, Ct.*
Henry Augustus Wood	*Bangor, Me.*
Norris Elwin Woodbury	*Nashua, N. H.*
John Burton Woods	*St. Johnsbury, Vt.*
Clarence Nelson Woolley	*Lonsdale*
Herbert Eugene Wray	*Providence*
John Henry Wren	*Randolph, Mass.*
Harry Sheffield Wright	*Providence*
George Burgess Yerkes	*Plainfield, N. J.*
Rhodes Walter Zallee	*St. Louis, Mo.*

SPECIAL STUDENTS

NAME	RESIDENCE
Stanley Mirick Banfield	*Worcester, Mass.*
David Sheldon Barry, Jr.	*Washington, D. C.*
Zue Sun Bien	*Shanghai, China*
Lea Vincent Boyle	*Pawtucket*
Henry Dewees Cady	*Warren*
George Washington Greene Carpenter	*Manton*
Antonio Colas, Jr.	*Havana, Cuba*
John Joseph Dunn	*Westerly*
Charles Judson Dutton	*Westerly*
Charles Miller Franklin	*Pawtucket*
Jamini Ghosh	*Calcutta, India*
Edgar Nathan Greenbaum	*Chicago, Ill.*
Willard Brayton Hall	*Geneva*
Everett Doane Higgins	*Riverside*
George Rogers Hill	*Brockton, Mass.*
Donald Jackson	*Providence*
Harold Leslie Kohler	*New York, N. Y.*
Clair Franklin Luther	*Providence*
John Terence Campbell McGuire	*Fall River, Mass.*
George Henry McGurty	*Somersworth, N. H.*
Donald McLean	*Bethlehem, Pa.*
Max Markensohn	*Providence*
William Emerson Muir	*Morristown, N. J.*
James Louis O'Hara	*Providence*
William Theodore Pierce	*Springfield, Mass.*
Max Olney Pinkham	*Wollaston, Mass.*
Adrien Edward Regnier	*Dorchester, Mass.*
Donald Varnum Richardson	*Providence*
Orville Pratt Richardson, Jr.	*Attleboro, Mass.*
Louis Frederic Robbins	*Ballston Spa, N. Y.*
Leon Semonoff	*Providence*
Patrick Henry Shay	*Fall River, Mass.*
Herbert Dunlop Tanner	*Providence*
Walter Elwood Tripp	*Providence*
Harold McGregor Tukesbury	*Dorchester, Mass.*
John Shorey Viall	*East Providence*
Herbert Alfred Weikert	*Happauge, N. Y.*
Herman Oscar Werner	*Providence*
Harry Ruby Westcott	*Providence*
Andrew Danforth White	*Providence*
William Valentine Winslow	*Fall River, Mass.*
William Lincoln Wright, Jr.	*Providence*

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IN BROWN UNIVERSITY

. . .

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WILLIAM HERBERT PERRY FAUNCE, A.M., D.D., LL.D., PRESIDENT
Professor of Moral and Intellectual Philosophy

LIDA SHAW KING, A.M., DEAN OF THE WOMEN'S COLLEGE
Assistant Professor of Classical Philology

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Newport-Rogers Professor of Chemistry

WILLIAM CAREY POLAND, A.M., LITT.D.
Professor of the History of Art and Director of the Museum of Fine Arts

NATHANIEL FRENCH DAVIS, A.M., LL.D.
Professor of Pure Mathematics

WINSLOW UPTON, A.M., Sc.D.
Professor of Astronomy and Director of the Ladd Observatory

ALBERT GRANGER HARKNESS, A.M.
Professor of Roman Literature and History

HENRY BRAYTON GARDNER, PH.D.
Professor of Political Economy

COURTNEY LANGDON, A.B.
Professor of the Romance Languages and Literatures

WILFRED HAROLD MUNRO, A.M.
Professor of European History

†GEORGE GRAFTON WILSON, PH.D.
Professor of Social and Political Science

EDMUND BURKE DELABARRE, PH.D.
Professor of Psychology

JAMES IRVING MANATT, PH.D., LL.D.
Professor of Greek Literature and History

† On leave of absence during the academic year 1908–9.

†WALTER COCHRANE BRONSON, A.M., Litt.D.
Professor of English Literature

WALTER GOODNOW EVERETT, Ph.D.
Professor of Philosophy and Natural Theology

ASA CLINTON CROWELL, Ph.D.
Associate Professor of the Germanic Languages and Literatures

CARL BARUS, Ph.D., LL.D.
Hazard Professor of Physics

FRANCIS GREENLEAF ALLINSON, Ph.D.
David Benedict Professor of Classical Philology

HENRY PARKER MANNING, Ph.D.
Associate Professor of Pure Mathematics

JAMES QUAYLE DEALEY, Ph.D.
Professor of Social and Political Science

WALTER BALLOU JACOBS, A.M.
Professor of the Theory and Practice of Education

ALBERT DAVIS MEAD, Ph.D.
Professor of Comparative Anatomy

ALBERT KNIGHT POTTER, A.M.
Associate Professor of the English Language

ALBERT BUSHNELL JOHNSON, A.M.
Associate Professor of the Romance Languages

ALEXANDER MEIKLEJOHN, Ph.D.
Professor of Logic and Metaphysics

JOHN FRANCIS GREENE, A.M.
Assistant Professor of Roman Literature and History

†FREDERICK SLOCUM, Ph.D.
Assistant Professor of Astronomy

WILLIAM MACDONALD, Ph.D., LL.D.
George L. Littlefield Professor of American History

JOHN EMERY BUCHER, Ph.D.
Associate Professor of Organic Chemistry

HENRY THATCHER FOWLER, Ph.D.
Professor of Biblical Literature and History

LINDSAY TODD DAMON, A.B.
Professor of Rhetoric

GEORGE WYLLYS BENEDICT, Ph.D.
Associate Professor of English

† On leave of absence during the academic year 1908–9.

THOMAS CROSBY, A.M.
Assistant Professor of English and Public Speaking

†JOHANNES BENONI EDUARD JONAS, PH.D.
Assistant Professor of the Germanic Languages and Literatures

HENRY BARRETT HUNTINGTON, A.B.
Assistant Professor of English

ALBERT SWIFT MORSE, A.M.
Assistant Professor of the Romance Languages

JAMES FRANKLIN COLLINS, PH.B.
Assistant Professor of Botany and Curator of the Herbarium

CAMILLO VON KLENZE, PH.D.
Professor of the Germanic Languages and Literatures

WILLIAM KIRK, PH.D.
Assistant Professor of Political Economy

†ROLAND GEORGE DWIGHT RICHARDSON, PH.D.
Assistant Professor of Pure Mathematics

SAMUEL CHILES MITCHELL, PH.D., D.D., LL.D.
Lecturer in History

HAMILTON CRAWFORD MACDOUGALL, MUS.D.
Lecturer in Music

CLINTON HARVEY CURRIER, A.M.
Instructor in Mathematics

ALICE WILSON WILCOX, A.B.
Instructor in Physiology and Household Economics in the Women's College

WILLIAM THOMSON HASTINGS, A.M.
Instructor in English

GEORGE RUPERT MACMINN, A.B.
Instructor in English

ROBERT McBURNEY MITCHELL, A.B.
Instructor in German

STANLEY BATES HARKNESS, A.B.
Assistant in English

BENJAMIN LOUIS ANTOINE HÉNIN, B. ès L., LL.B.
Assistant in French

FREDERICK GEORGE KEYES, SC.M.
Assistant in Chemistry

FRANCIS JOSEPH NEEF, PH.B.
Assistant in German

† On leave of absence during the academic year 1908–9.

JEANNIE OLIVER ARNOLD, M.D.
Medical Examiner

HELEN WILBUR PAINE
Instructor in Physical Training

SARAH GRIDLEY ROSS, A.B.
Head of the Slater Memorial Homestead

COMMITTEE ON THE CURRICULUM

Professors Poland, Davis, Gardner, Langdon, Bronson, Everett, Allinson, Mead, *and* MacDonald, *Dean* King.

EXECUTIVE COMMITTEE

President Faunce, *Dean* King, Robert Hale Ives Goddard, *Rev.* Henry Melville King, Stephen Olney Metcalf.

ADVISORY COUNCIL

Miss Sarah E. Doyle, *Miss* Amelia S. Knight, *Mrs.* Gustav Radeke, *Mrs.* Carl Barus, *Mrs.* Francis G. Allinson, *Miss* Charlotte L. Tillinghast, *Mrs.* William T. Hastings.

COURSES OF INSTRUCTION
OFFERED IN 1908–9

*COURSES designated by a † are given at the University; women are admitted to them, but only on the recommendation of the Dean of the Women's College. Women may also be admitted to other University courses not announced here, with the special permission of the department and with the consent of the Dean of the Women's College. In courses designated by a * a final mark covering the work of the course as a whole is given at the end of the course, the marks given at the end of the preceding term or terms being regarded as temporary.*

I. ART

1, 2, 3. *History of Art from Antiquity through the Renaissance*

First term, ancient art; a general course in the history of ancient art, chiefly Greek. Second term, Roman, early Christian, and Medieval art; a study of Roman, Romanesque, and Gothic art, with some notice of Byzantine, Arabian, and Oriental art. Third term, art of the Renaissance; the fifteenth and sixteenth centuries; the effect on art of the dominant motives of the epoch, the development of art in the different countries of Europe, the great masters and their most significant works. Text-book, lectures, lantern views. *Professor* POLAND.

Three hours. Through the year. Elective for Juniors and Seniors. Each term may be elected independently. *Tu., Wed., Sat., at 9.25.*

10. *Freehand Drawing*

Training of hand and eye by progressive study of models of machine parts, casts of ornamental forms, and still-life objects.

One hour. Two hours of drawing. Through the year. Elective for all students. Given at the Rhode Island School of Design. *Tu., or Th., or Fri., at 2.20.*

11. *Practical Work in Art*

Six hours of drawing or other practical work. To illustrate the principles of delineation, color, and chiaroscuro, and the principles of design in architecture, sculpture, and painting, as exemplified in the historic forms of art.

Three hours. Through the year. Elective for students who have credit for 10, and who have taken 1, 2, 3. Given at the Rhode Island School of Design. *Tu., Th., Fri., at 2.20.*

II. ASTRONOMY

1, 2, 3. *General Course*

Fundamental conceptions of the science; methods of professional study; present state of our knowledge of the heavenly bodies. Young's *Manual of Astronomy;* lectures and abstracts upon assigned topics. Designed either for purposes of general culture or as a preparation for technical work. *Professor* UPTON.

Three hours. Through the year. Elective for Juniors and Seniors who have credit for Mathematics 3, 1, 2. *Wed., Fri., Sat., at 11.25.*

III. BIBLICAL LITERATURE AND HISTORY

1.† *Elementary Hebrew*

Grammar; exercises in writing Hebrew; translation of parts of Genesis and Deuteronomy. *Professor* FOWLER *and Mr.* ENGLANDER.

Three hours. Through the year. Elective for Juniors and Seniors.

13, 17, 18. *Old Testament Literature and History*

First term, early Semitic history, the formative age of Hebrew history, and Hebrew literature before the Monarchy. Second term, history and literature of the Hebrew Monarchy. Third term, Jewish history and literature from the Captivity to the Maccabean Revolt. Includes nearly the entire Old Testament history and literature. In connection with 14, 19, 20, gives a comprehensive view of Biblical history and literature. The Biblical books are read in the best English translations. *Professor* FOWLER.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *Tu., Fri., Sat., at 10.25.*

15.†* *Biblical Seminary*

Subject for 1908–9: Documentary analysis of the Old Testament historical books. *Professor* FOWLER.

Three hours. Through the year. Elective for approved Juniors and Seniors.

IV. BIOLOGY

2.† *Anatomy*

Includes the study of each organ from its primitive form in the lowest

animals to its most complex form in the higher animals and in man. Aims to give a thorough knowledge of the structure and meaning of each organ of the animal body. Designed for students of biology and of medicine. Students are permitted to attend clinics and autopsies at the Rhode Island Hospital. Laboratory work and lectures. *Professor* WALTER.

Three hours. Six hours of attendance. Through the year. Elective for Sophomores, Juniors, and Seniors, who have credit for 1.

3.† *Bacteriology*

A general discussion of bacteria in all their relations, with special attention in the laboratory to the methods of studying bacteria, including the isolation, systematic study, and determination of unknown species. Lectures and laboratory work. *Professor* GORHAM.

Three hours. Six hours of attendance. Third term. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. *Mon., Wed., Th., at 10.20.*

4, 5.† *Advanced Histology and Pathology*

Advanced work in micro-technic and in normal and pathological histology. Adapted, to some extent, to individual requirements. *Professor* MEAD *and Dr.* FULTON.

Three hours. Six hours of attendance. First and second terms. Elective for Juniors and Seniors who have credit for 1 and 10.

7.† *Chemical Physiology*

Designed both for those who are interested in physiology either from a medical or a general standpoint, and also for those who are specializing in chemistry and desire a knowledge of vital chemical processes. Includes: the chemistry of proteins, carbohydrates, and fats; the physiology of the digestive system, with the study of secretions and of artificial salivary, gastric, and pancreatic digestions; examination of blood, bile, and urine; the analysis of foods with special reference to milk. *Dr.* MITCHELL.

Three hours. Six hours of attendance. First and second terms. Must be preceded by Chemistry 1, 2, 3, and should be preceded by Chemistry 10. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. *Tu., Fri., Sat., at 10.20.*

8.† *Physical Physiology*

The physiology of muscle and nerve; the physics and physiology of

the circulatory, respiratory, and alimentary systems; the causes and theories of sleep; the physiology of the special senses. *Dr.* MITCHELL.

Three hours. Six hours of attendance. Third term. Must be preceded by 7. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. *Tu., Fri., Sat., at 10.20.*

9.† *Anatomy of the Nervous System*

A study of the architecture and composition of the brain, nerves, and sense organs in man; comparison with the nervous system of lower vertebrates; relation of nervous structure to mental activity. *Professor* MEAD.

Three hours. Six hours of attendance. Through the year. Elective for Juniors and Seniors who have credit for 1. Not to be offered in 1909–10.

[16.† *Evolution*]

The history of biology, principles of classification, geographical distribution, heredity, natural selection, variation, Mendelism, and the relationship of man to the lower animals. Lectures and assigned reading. *Professor* MEAD.

Three hours. Third term. Elective for Juniors and Seniors. Not offered in 1908–9.

18.† *Ornithology*

A study of birds regarded as a group of living animals in relation to their environment. Lectures and field identification of wild birds during their spring migration. *Professor* WALTER.

One hour. Two hours of attendance. Third term. Elective for all students.

20. *Euthenics*

Aims to teach the scientific facts and physiological and economic principles upon which *right living* depends. First term, the chemistry of foods and their physiological and economic value; food constituents, proteids, carbohydrates, fats, etc.; digestion and absorption; quantitative analysis of milk; selection and preparation of food; study of dietaries. Second term, the principles of general physiology and their application to personal hygiene; circulation, respiration, excretion, and reproduction; muscular and nervous action under varying conditions of stimulation, temperature, fatigue, etc. Third term, the principles of construction and practical management of the home necessary for the economy, health, and social efficiency of the individual occupants; demonstration of sanitary methods. Those

who desire may substitute the first term's work in General Biology (22) for that in Euthenics (20). *Miss* Wilcox.

Three hours. Six hours of attendance. Through the year. Elective for all students. *Mon. 10.25 to 12.15; Th. 10.25 to 12.15; Fri. 2.20 to 4.20.*

22. *General Biology*

Introductory to other courses in the department; also designed for those who, without intending to pursue the subjects further, desire a general view of biological work and biological theories, as variation, natural selection, evolution, and heredity. First term, practice in dissection; study of the structure and functions of the different organs of a typical mammal and comparisons with those of man. Second and third terms, use of compound microscope, study of the cell, protoplasm, tissues; metabolism, growth and reproduction in unicellular animals and plants; theories of fermentation, infection, vaccination, and immunity; more specialized forms, hydra, fern, annelid, lobster, and frog. Collecting trips in the spring. Those who desire may substitute the second and third terms of Euthenics (20) for those of General Biology (22). The classes in Botany (1) and General Biology (22) are combined the second and third terms. *Miss* Wilcox.

Three hours. Six hours of attendance. Through the year. Elective for all students. *Tu., Wed., Sat., 9.25 to 11.15.*

V. BOTANY ‡

1. *Introductory Course*

Introductory to other courses in the department; also designed for those who, without intending to pursue the subject further, desire a general view of biological work and biological theories. Aims to give an introduction to laboratory methods of dissection and experiment and the use of the microscope, to afford a general view of the structure and functions of plants and animals, and to present an outline of the more important biological theories, such as evolution, natural selection, variation, mutation, and heredity. After the first term Botany 1 and Comparative Anatomy 22 are identical. *Professor* Collins.

Three hours. Six hours of attendance. Through the year. Elective for all students. *Tu., Wed., Sat., 9.20 to 11.20.*

‡ Students intending to teach or to apply for positions in the Government or State experiment station service are advised to supplement courses 1, 2 and 3, 4, 5 with advanced or special work in course 6.

3, 4, 5.† *Comparative Morphology*

Intended to give a general view of the evolution and classification of plants by a comparative study of the life-histories of certain types. First term, algae and fungi. Second term, mosses, ferns, etc. Third term, seed plants. Certain portions of this course may, with the approval of the instructor, be continued by Juniors and Seniors in course 6.

Three hours. Six hours of attendance. Through the year. Elective for Sophomores, Juniors, and Seniors, who have credit for 1. Not to be offered in 1909–10. Alternates with 2. *Mon., Wed., Fri., at 12.20.*

6.†* *Investigation*

The character of the problems varies, and the course may therefore be taken two or more years in succession. Students electing this course must, so far as possible, definitely arrange the work and the time schedule with the instructor before June 1 of the preceding academic year. Special work upon almost any phase of botany may be chosen if approved by the instructor. *Professor* COLLINS.

One to three hours. Through the year. Two to six hours of attendance for qualified Juniors and Seniors.

7.† *Trees*

Lectures and field work in the identification of native and introduced trees; characteristic structure of the more common kinds of wood. The required field trips will take place in the afternoon unless otherwise specially arranged, the number depending somewhat upon the length of the individual trips and the amount of work accomplished.

One hour. Two hours of attendance. Third term. Required in the Senior year for the degree of Bachelor of Science in Civil Engineering. Elective for other students. Lectures, *Wed. at 8.*

VI. CHEMISTRY

1, 2, 3. *Descriptive Chemistry*

Non-metals; metals, their metallurgy, compounds, and practical applications; theoretical chemistry. Lectures with experiments; written exercises; individual laboratory work. *Professor* BUCHER *and Mr.* DOLT.

Three hours. Through the year. Elective for Undergraduates. *Mon., Tu., Th., at 11.20.* Laboratory hours to be arranged with the instructor.

4, 5.† *Qualitative Analysis*

First term, properties of the metallic elements; their separation from certain of their compounds. Laboratory work; recitations in qualitative analysis and in chemical philosophy; exercises in stoichiometry. Second term, the principal non-metals and the acids formed by them; methods of separation and recognition of acids and acid radicles. *Professor* APPLETON *and Mr.* GAGER.

Three hours. Six hours of attendance. First and second terms. Elective for Juniors who have credit for 1, 2, 3. *1st div. Fri. at 11.20; 2d div. Sat. at 10.20.* Laboratory hours to be arranged with the instructor.

6.† *Quantitative Analysis*

Quantitative precipitations and separations of the most important elements and compounds; the principles upon which quantitative apparatus is constructed; chemical philosophy and stoichiometry continued. Chiefly laboratory work. *Professor* APPLETON *and Mr.* GAGER.

Three hours. Six hours of attendance. Third term. Elective for Juniors who have credit for 4, 5. *1st div. Fri. at 11.20; 2d div. Sat. at 10.20.* Laboratory hours to be arranged with the instructor.

VIII. ECONOMICS‡

1. *Economics, elementary*

Affords a general outline of the subject, and serves as an introduction to the more extended and special courses which follow. *Professor* KIRK.

Three hours. First term. Sophomore, Junior, or Senior year. Must be followed by Political Science 1 and Social Science 1. Required of candidates for the degree of Bachelor of Arts; elective for others. *Tu., Wed., Sat., at 9.25.*

12. *Industrial Life*

The growth, organization, and geographical distribution of the main branches of industry since 1860; the relation of the industrial life of the United States to that of the world at large. *Professor* KIRK.

‡ The courses in this department other than 1 are open only to those students who have credit for Economics 1, Political Science 1, and Social Science 1, which together constitute an introduction to the advanced work of the departments of Social and Political Science and Economics.

Three hours. Through the year. Elective for Juniors and Seniors. Each term may be elected independently. *Mon., Th., Fri., at 9.25.*

6. *The Labor Movement*

History and analysis of the trade-union movement; growth of collective bargaining; labor problems in the United States. *Professor* KIRK.

Three hours. First term. Elective for Juniors and Seniors. *Mon., Th., Fri., at 9.25.*

7. *Socialism*

A brief review of the historically important socialistic schemes; mainly a study of the modern scientific socialism of Karl Marx and of the resulting socialistic movements. *Professor* KIRK.

Three hours. Second term. Elective for Juniors and Seniors. *Mon., Th., Fri., at 9.25.*

4.† *Public Finance*

First term, general principles of public finance; revenues and expenditures of leading industrial nations. Second term, financial history of the United States. Third term, local finance: revenues, expenditures, and financial systems of American states and cities. *Professor* GARDNER.

Three hours. Through the year. Elective for Juniors and Seniors. Not to be offered in 1909–10. *Wed., Fri., Sat., at 11.20.*

5.† *History and Present Tendencies of Economics*

Early economic theories: a critical examination of the theories of the early schools of economists, especially the physiocrats and the early English school, with particular attention to the relation between economic thought and economic life and practice. Recent economic theories: a study of the tendencies of the historical school, the Austrian school, and recent English and American writers. The growth of the principle of monopoly; its influence on the production and distribution of wealth and on the economic well-being of society. *Professors* GARDNER *and* KIRK.

Three hours. One session of an hour and a half weekly. Through the year. Elective for Seniors who have credit for 2.

9.† *The Tariff*

The arguments for free trade and protection in relation to the principles of international trade; the history of tariff legislation and its effects in the United States. *Professor* KIRK.

Three hours. Third term. Elective for Juniors and Seniors. Not to be offered in 1909–10. *Mon., Tu., Th., at 11.20.*

13.† *Physical and Commercial Geography*

A study of the physical features of the land; of climate, winds, ocean currents; of the geographical distribution of food-stuffs and raw materials of industry; and of the consequent development of commerce and of civilization in its economic aspects. Lectures and laboratory work. This course is the same as Geology 12. *Professors* Brown *and* Kirk.

Three hours. Through the year. Elective for Juniors and Seniors. *Wed., Th., at 10.20; Fri., 2.20 to 4.20.*

20, 21, 22.† *Investigation of Special Topics*

Intended to train the student in methods of gathering, handling, and presenting data in the study of economic life and problems. Laboratory methods. *Professors* Gardner *and* Kirk.

Three hours. Six hours of attendance. Through the year. Elective for approved Juniors and Seniors. Each term may be elected independently.

IX. ENGLISH‡

1. *Rhetoric and Composition*

Lectures and recitations upon the fundamental laws of style, with special emphasis upon usage; prescribed reading and themes. Designed to give the student a clear and correct style and some critical standards. *Professor* Benedict *and Mr.* Harkness.

Three hours. Through the year. Required of all Freshmen. *Mon., Tu., Th., at 2.25.*

4. *Argumentative Composition*

Lectures on the principles and forms of argumentative composition; frequent practice in brief-drawing and the writing of forensics and less formal arguments. Intended to develop the power of handling argumentative topics cogently and persuasively. *Professor* Huntington.

Three hours. Through the year. Elective for Juniors and Seniors. *Wed., Fri., Sat., at 11.25.*

‡ Credit for English 1 is a prerequisite for admission to all other courses in English. The requirement in English Literature for the degree of Bachelor of Arts may be satisfied by taking any one of the courses from 10 to 23 inclusive.

7.* *Public Speaking*

Principles of voice culture; vocal interpretation of literature; extempore speaking. *Professor* Crosby.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *Tu., Fri., Sat., at 10.25.*

9.† *Old English*

Essentials of Anglo-Saxon grammar; prose selections; Béowulf. *Professor* Potter.

Three hours. Through the year. Elective for Juniors and Seniors. *Mon., Tu., Th., at 3.20.*

10.† *Chaucer*

Careful reading of most of Chaucer's works; study of Middle English grammar, with some attention to the development of Modern English. *Professor* Benedict.

Three hours. Through the year. Elective for Juniors and Seniors. *Mon., Tu., Th., at 4.20.*

11. *English Literature from the Beginning to the Present Time*

An outline course in the history of English literature, with reading and study of the greater writers. *Professor* Damon, *assisted by Messrs.* MacMinn *and* Harkness.

Three hours. Through the year. Elective for Sophomores. *Mon., Tu., Th., at 3.25.*

13. *History of the Drama in England*

The drama as a literary type and its history in England to 1642. *Professor* Potter.

Three hours. Through the year. Elective for students who have credit for any one of the courses from 10 to 23 inclusive. *Wed., Fri., Sat., at 11.25.*

14. *Shakspere*

Careful study of a few plays with special attention to exact interpretation. *Professor* Benedict.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *Mon., Wed., Th., at 10.25.*

19. *English Literature from 1798 to 1832*

The romantic revolt in its critical and imaginative phases; influence of the French revolution; individualism in form and spirit. *Mr.* Hastings.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *Tu., Fri., Sat., at 10.20.*

23.† *Seminary in English Literature*

Subject for 1908–9: The history of literary criticism in England. *Professor* DAMON.

Three hours. Two hours of attendance. Through the year. Elective for a limited number of Seniors who have attained the grade of C in two of the courses from 9 to 22 inclusive.

X. GEOLOGY

3.† *General Geology*

A discussion of the origin, weathering, and metamorphism of rocks; of other agencies that have affected the formation and development of the earth and its crust; of certain land-forms and the stages of their development; a review of earth changes, with special reference to the development of the North American continent; the types of life characteristic of the different periods, and the principles of organic evolution they illustrate. Lectures, illustrated by models and lantern views. One-third of the first term will be devoted to laboratory work. Two field trips will be taken in the first term and three in the third term. *Professor* BROWN.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *Tu., Fri., Sat., at 10.20.*

12.† *Physical and Commercial Geography*

A study of the physical features of the land; of climate, winds, and ocean currents; of the geographical distribution of food-stuffs and the raw materials of industry; and of the consequent development of commerce and of civilization in its economic aspects. Lectures and laboratory work. This course is the same as Economics 13. *Professors* BROWN *and* KIRK.

Three hours. Through the year. Elective for Juniors and Seniors. *Wed., Th., at 10.20; Fri. 2.20 to 4.20.*

13.† *Physiographic Seminary*

Discussions and reports on the more advanced problems of Physiography. *Professor* BROWN.

Three hours. One hour of attendance. Through the year. By special arrangement with the instructor, the course may be taken for a shorter period. Elec-

tive for students who have passed the first term's work in course 12, and for others who have had sufficient preliminary training in Physiography.

XI. GERMANIC LANGUAGES AND LITERATURES

1. *Introductory Course*

Reading, grammar, composition, conversation, dictation, sight reading. *Mr.* MITCHELL.

Three hours. Through the year. Required of all students who did not present German for admission. *Mon., Wed., Fri., at 12.25.*

2. *Intermediate Course*

Reading of modern German stories (Batt and Allen's *German Stories,* volumes 1 and 2), lyrics (von Klenze or Hatfield), and one or two dramas of the classical period. Review of grammar; composition; conversation based upon the texts read. *Mr.* NEEF.

Three hours. Through the year. Required of all Freshmen who presented elementary German for admission. Not elective for students who have taken German in college. *Mon., Wed., Fri., at 12.25.*

3, 4, 5. *Reading Course*

Reading of modern German stories (Batt and Allen's *German Stories,* volume 2), lyrics (von Klenze or Hatfield), and two dramas illustrating respectively the classical and the modern period (Schiller's *Maria Stuart* and Hebbel's *Agnes Bernauer*). Review of grammar; composition; conversation based upon the texts read. *Professor* CROWELL *and Mr.* MITCHELL.

Three hours. Through the year. Elective for students who have credit for 1. *Tu., Th., Sat., at 12.25.*

7. *Advanced Course in Standard Authors, Classical and Modern*

One drama of Goethe's, Grillparzer's *Hero und Leander,* Hebbel's *Herodes und Mariamne,* Keller's *Romeo und Julie auf dem Dorfe,* Sudermann's *Frau Sorge.* Talks in German on the history of German literature; oral and written reports in German. *Professor* VON KLENZE.

Three hours. Through the year. Elective for students who have credit for 2, and for students who presented advanced German for admission. *Mon., Wed., Fri., at 12.25.*

12, 13, 14.† *Outline History of German Literature*

Aims to acquaint the student with the most important movements in the evolution of German literary life. Lectures in German; reports on assigned topics; extensive reading. *Professor* von Klenze.

Three hours. Through the year. Elective for students who have credit for 7, 10, 12, 14, or 16. *Tu., Th., Sat., at 12.20.*

16.† *Gothic and Old High German*

The Gothic language, with reading of extracts in Streitberg's *Gotisches Elementarbuch* or Braune's *Gotische Grammatik,* Braune's *Althochdeutsche Grammatik* and *Althochdeutsches Lesebuch. Professor* Crowell.

Three hours. Through the year. Elective for approved Juniors and Seniors. *Mon. at 3.20; Tu., Th., at 4.20.*

29, 30, 31. *The German Drama of the Nineteenth Century*

Kleist, Grillparzer, Hebbel, Hauptmann, and Sudermann. A study of the development of the German drama from waning romanticism to realism, with frequent references to the chief representatives of the modern drama in other countries. *Professor* Crowell.

Three hours. Through the year. Elective for students who have credit for 5, 6, or 7. *Mon., Wed., Fri., at 12.25.*

10.† *Goethe's Faust: Parts* 1 *and* 2

With some notice of recent dramas of kindred interest. *Professor* Crowell.

Three hours. Through the year. Elective for students who have credit for 5 or 7. *Mon., Th., Fri., at 9.20.*

[33, 34, 35.† *Goethe: A Study of His Life and Works*]

Lectures in German; reports on assigned topics; extensive reading. *Professor* von Klenze.

Three hours. Through the year. Elective for students who have credit for 7, 10, 12, 14, or 16. Not offered in 1908–9.

36.† *Seminary in German Literature*

Aims to give training in modern methods of investigation and criticism. To be carried on in German. Subject for 1908–9: Problems affecting the sources, the evolution, and the technic of the short story of the nineteenth century. *Professor* von Klenze.

Three hours. One session weekly. Through the year. Elective for approved students.

XII. GREEK LITERATURE AND HISTORY‡

A, B, C. *Elementary Course*

Designed to cover as much as possible of the entrance requirements in Greek, and thus to enable a student to take 1, 2, and 3 in the following year if she completes by private study before the opening of the first term the entire requirement in the *Anabasis*, and before the opening of the third term the entire requirement in Homer. *Professors* MANATT *and* ALLINSON.

Three hours. Through the year. Elective for students who did not present elementary and advanced Greek for admission. *Wed., Fri., Sat., at 11.25.*

1. *Plato*

Plato's *Apology* and *Crito*, with selections from the *Euthyphro* and *Phaedo*. *Professor* MANATT.

Three hours. First term. Elective for students who presented elementary and advanced Greek for admission, or who have credit for Greek A, B, C and have done the additional work indicated above. *Tu., Wed., Sat., at 9.25.*

2. *Homer*

The *Odyssey*, four books; rapid reading of other books; lectures on the life of the Heroic Age as revealed in the poems and illustrated by recent archaeological research. *Professor* ALLINSON.

Three hours. Second term. Elective for students who have credit for 1. *Tu., Wed., Sat., at 9.25.*

3. *Lysias*

Selections from Lysias; selections for sight reading from Herodotus. *Professor* MANATT.

Three hours. Third term. Elective for students who presented elementary and advanced Greek for admission, or who have credit for Greek A, B, C and have done the additional work indicated above. *Tu., Wed., Sat., at 9.25.*

4. *Lucian*

Selected writings. *Professor* ALLINSON.

Three hours. First term. Elective for Sophomores. *Mon., Tu., Th., at 11.25.*

35. *Greek Historians*

Selections from Herodotus, Thucydides, and Xenophon, with a general review of Greek History. *Professor* MANATT.

Three hours. Second term. Elective for Sophomores. *Mon., Tu., Th., at 11.25.*

‡ Courses 1, 2, 3 are a prerequisite for the more advanced courses in this department.

6. *Dramatic Poets*

Lectures on the Greek drama. The *Prometheus* of Aeschylus; the *Oedipus Tyrannus* of Sophocles. *Professor* ALLINSON.

Three hours. Third term. Elective for Sophomores. *Mon., Tu., Th., at 11.25.*

11. *Herodotus*

A study of Greek History down to the beginning of the Athenian Empire. Collateral reading of Aeschylus' *Persae;* and (in translation) Plutarch's *Solon, Themistocles,* and *Aristides. Professor* MANATT.

Three hours. First term. Elective for Juniors and Seniors. *Tu., Fri., Sat., at 8.*

12. *Thucydides*

The Rise and Fall of the Athenian Empire. Collateral reading of Aristophanes' *Acharnians* and *Knights;* and Plutarch's *Cimon, Pericles,* and *Alcibiades. Professor* MANATT.

Three hours. Second term. Elective for Juniors and Seniors. *Tu., Fri., Sat., at 8.*

10. *The Drama*

The *Medea* of Euripides and the *Frogs* of Aristophanes, with rapid reading of the *Seven against Thebes* of Aeschylus for literary criticism. *Professor* ALLINSON.

Three hours. Third term. Elective for Juniors and Seniors. *Tu., Fri., Sat., at 8.*

36. *Introduction to Greek Archaeology*

Outline of the remains of the earliest Greek civilization; an introductory study of Greek vases, coins, small bronzes, and terra-cotta figurines. Intended to give a general survey of these sources for Greek history and life. Illustrated lectures; collateral reading. *Professor* KING.

Three hours. Third term. Elective for students who have completed one course in Latin or Greek. *Mon., Th., Fri., at 9.25.*

XIII. HISTORY‡

1. *Medieval and Modern History of Europe*

A general survey of the history of western Europe from the time

‡The elective courses in History are regularly open only to those who have credit for 1; but, by special permission of the instructor, elective courses may be taken by Juniors who are at the same time taking 1.

of the barbarian invasions to 1815. A narrative text-book supplemented by lectures, frequent written tests, and written reports and abstracts on assigned reading and topics for special investigation. *Professor* MITCHELL.

Three hours. Through the year. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy in either the Sophomore or the Junior year. *Mon., Tu., Th., at 11.25.*

11,12,13. *English Constitutional and Political History since 1689*
Foreign relations; the development of party government and the cabinet system; the social and political changes of the nineteenth century. *Professor* MUNRO.

Three hours. Through the year. Elective for Juniors and Seniors. Each term may be elected independently. *Mon., Tu., Th., at 11.25.*

22, 23, 24.† *Seminary in American History*
Designed to afford training in historical investigation and practice in the use of sources. The subjects vary from year to year, and are drawn from both the colonial and the constitutional periods. For 1908–9 the subjects are: First term, The English colonies in the early part of the eighteenth century. Second term, Biographical studies of early Revolutionary leaders. Third term, The administrations of Jefferson. *Professor* MACDONALD.

Three hours. One hour of attendance. Through the year. Elective for approved Seniors. The course presupposes an acquaintance with 27, 28, 29 or 19, 20, 21, but by special permission it may be taken by those who are taking 27, 28, 29 or 19, 20, 21.

27, 28, 29. *American History*
A general course, covering the whole period from the beginnings of English colonization to the end of the Civil War. Lectures, supplemented by assigned reading, study of the texts of representative documents, and special reports. Intended as an introduction to the advanced courses in American history, and for those students who wish only a general survey of the subject or who expect to teach history. *Professor* MACDONALD.

Three hours. Through the year. Elective for Juniors and Seniors. *Mon., Wed., Fri., at 12.25.*

XIV. INDO-EUROPEAN PHILOLOGY

[1. *General Introduction to the Study of Language*]

Outline of the history of language; the Indo-European family. Adapted for students of ancient or modern languages. *Professor* ALLINSON.

Three hours. Third term. Elective for Freshmen and Sophomores. *Tu., Wed., Sat., at 9.25.* Not offered in 1908–9.

XV. MATHEMATICS‡

3. *Algebra*

Professor MANNING *and Mr.* CURRIER.

Four hours. First term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented only Plane Geometry for admission. *Tu., Wed., Fri., Sat., at 10.25.*

1. *Geometry, Solid and Spherical*

Professor MANNING *and Mr.* CURRIER.

Four hours. Second term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented only Plane Geometry for admission.

2. *Trigonometry*

Professor MANNING *and Mr.* CURRIER.

Four hours. Third term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented only Plane Geometry for admission.

4. *Analytic Geometry*

Professor DAVIS.

Three hours. First and second terms. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. Elective for students who have credit for 1, 2, 3. *Tu., Fri., Sat., at 10.25.*

5. *Differential Calculus*

Professor DAVIS.

Three hours. Third term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane

‡ The courses 1–11 should be taken in the order in which they are printed.

Trigonometry for admission. Elective for students who have credit for 4. *Tu., Fri., Sat., at 10.25.*

6.† *Integral Calculus*

Professor DAVIS.

Three hours. First term. Elective for students who have credit for 5. *Tu., Th., Sat., at 12.20.*

7.† *Applications of the Differential Calculus*

Professor DAVIS.

Three hours. Second term. Elective for students who have credit for 5 and 6. *Tu., Th., Sat., at 12.20.*

8.† *Applications of the Integral Calculus*

Professor MANNING.

Three hours. Third term. Elective for students who have credit for 6. *Tu., Th., Sat., at 12.20.*

9, 10, 11.† *Differential Equations*

Professor MANNING.

Three hours. Through the year. Elective for students who have credit for 6 or 21. First term required of candidates for the degree of Bachelor of Science in Electrical Engineering. *Mon., Wed., Fri., at 12.20.*

[14.† *Solid Analytic Geometry*]

Professor MANNING.

Three hours. Third term. Elective for students who have credit for 4 or 19. Not offered in 1908–9.

XVIII. PHILOSOPHY

2. *Psychology, introductory course*

The main facts and laws of mental life, with particular attention to their arrangement in a scientific system. The course aims to provide a sound foundation for further acquaintance with this and allied subjects, for an improved judgment in dealing with many practical problems of life, and for beginning the study of philosophy. *Professor* DELABARRE.

Three hours. Through the year. Elective for Juniors and Seniors. *Tu., Wed., Sat., at 9.25.*

9, 10. *Theoretical Ethics*

Intended to aid in mastering the fundamental problems of life and character. First term, a discussion of the nature and relations of ethics and an outline of the history of the chief ethical systems. Second term, a critical study of the fundamental concepts of ethics with the aim of constructing a tenable theory of conduct. *Professor* EVERETT.

Three hours. First and second terms. Elective for Juniors and Seniors. *Mon., Tu., Th., at 11.25.*

12. *Philosophy of Religion*

A study of the nature of the religious consciousness and of the ultimate problems of religious belief. *Professor* EVERETT.

Three hours. Third term. Elective for Seniors who have credit for one course in Philosophy. *Mon., Tu., Th., at 11.25.*

11. *Practical Ethics*

The application of ethical theory to the life of the individual, the family, and the state. Discussion of current problems, personal, industrial, and social, from the ethical standpoint. *President* FAUNCE.

Three hours. Third term. Elective for Juniors and Seniors. *Tu., Wed., Sat., at 10.25.*

EDUCATION ‡

1. *History of Education*

Education among the early culture peoples as forming and perpetuating their civilization; the development of education in Greece and Rome as parallel to the development of thought and learning; early Christian education; the renaissance and humanism; the rise of realism in thought and education. The history of education considered from the point of view of the history of civilization. *Professor* JACOBS.

‡ Courses 1, 2, and 3 treat education in its relation to the individual and to the social and political whole; interest in them is therefore not limited to those who intend to teach. At the same time they form an introduction to the more advanced courses in Education. Those who intend to teach are advised to elect these courses during the Junior year.

Courses 1–6 cover the usual requirements for certificates of the First Grade except where practice teaching or experience is demanded. In Rhode Island a certificate is required of all teachers in schools supported in whole or in part by public money. Certificates of the First Grade are granted without examination to those who have completed courses 1–6 and hold a college degree. Due credit is also given for separate courses.

Three hours. First term. Elective for Juniors and Seniors. *Mon., Wed., Th., at 10.25.*

2. *Critical Study of Modern Education*

The beginnings of modern education; the naturalistic movement—Rousseau; the psychological movement—Pestalozzi, Froebel, Herbart; the scientific movement—Spencer; recent sociological tendencies; current experiments; problems which an adequate theory of education must solve. *Professor* JACOBS.

Three hours. Second term. Elective for Juniors and Seniors. *Mon., Wed., Th., at 10.25.*

3. *Fundamental Principles of Education*

The meaning and aim of education; the function of education as a social institution; the sequence and coördination of studies; the principles of instruction; apperception; the steps in method; the use of the type in instruction; the training of the will; the principles of moral education. *Professor* JACOBS.

Three hours. Third term. Elective for Juniors and Seniors. *Mon., Wed., Th., at 10.25.*

4. *Psychology of Education*

Theory and process of mental development, with special emphasis upon the period of adolescence; psychology of method, and of the various studies and disciplines; ways in which student and teacher may utilize a knowledge of the more fundamental activities of the mind. *Professor* JACOBS.

Three hours. First term. Elective for Seniors who have credit for 1, 2, or 3, or who are taking 1. *Mon., Th., Fri., at 9.25.*

5. *Hygiene of Education*

A study of bodily growth and development; special emphasis upon the period of adolescence; play and fatigue; physical culture and athletics; arrested growth; the conditions and surroundings which favor or retard normal development; the hygiene of mind; school hygiene. *Professor* JACOBS.

Three hours. Second term. Elective for Seniors who have credit for 1, 2, or 3, or who are taking 2. *Mon., Th., Fri., at 9.25.*

6. *Practical Introduction to Teaching*

The method of the recitation; management and discipline of classes;

observation of good teaching; practical applications of method. *Professor* JACOBS.

Three hours. Third term. Elective for Seniors who have taken or are taking other courses in Education. *Mon., Th., Fri., at 9.25.*

XIX. PHYSICS

1, 2, 3. *Elementary Physics*

First term, kinematics and dynamics. Second term, molecular physics. Third term, electricity. Lectures, illustrated by experiments and the lantern; weekly written exercises corrected in detail by the instructors. Designed for those who have had little previous training in physics. *Professor* BARUS.

Three hours. Through the year. Elective for students who have credit for Mathematics 1, 2, 3. *Wed., Fri., Sat., at 11.25.*

4, 5, 6.† *Elementary Physics, continued*

First term, optics. Second term, acoustics, polarization of light. Third term, heat. Methods as in 1, 2, 3. *Professor* BARUS.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors, who have credit for 1, 2, 3. *Tu., Fri., Sat., at 10.20.*

7.† *Physical Measurements*

Elementary theory and practice of physical manipulation. Reports of experiments and solution of problems. *Professor* PALMER *and Mr.* FIELD.

Three hours. Six hours in the laboratory. Through the year. Elective for students who have credit for 1, 2, 3 or 4, 5, 6.

14, 15, 16.† *Advanced Laboratory Course*

Special problems and reference to original sources for methods of solution. *Professors* BARUS, PALMER, *and* WATSON.

Three or six hours. Six or twelve hours of attendance. Through the year. Elective for students who have credit for 7.

17, 18, 19.† *Applied Harmonic Analysis*‡

Importance of Fourier's method shown by examples drawn from the analytical theory of heat, from elastics, alternating electricity, and

‡ Of the two courses 17, 18, 19 and 20, 21, 22, only one will be offered in any given year. In determining which shall be offered, the preference of applicants will be considered.

elsewhere; treatment by the aid of spherical harmonics, Bessel functions, and Lamé functions. *Professor* BARUS.

Three hours. Through the year. Elective for Seniors who have credit for 1, 2, 3 and Mathematics 7, 9.

20, 21, 22.† *Physics, advanced course*‡

Lectures on dynamics, potential, elastics, hydrostatics, hydrodynamics, viscosity, capillarity, electrostatics, magnetism, electro-magnetism, thermo-electrics, induction, Fresnel's optics, the electromagnetic theory of light, thermal analytics, and thermodynamics. Completed in two years. *Professor* BARUS.

Three hours. Through the year. Elective for Juniors and Seniors who have credit for Mathematics 5, 6, 7.

XX. ROMAN LITERATURE AND HISTORY

1. *Livy*

Designed to enable the student to acquire facility in reading Latin, and to instruct him in the use of the Latin texts as a means of gaining a knowledge of Roman history; grammatical study and literary criticism also receive attention. *Professor* KING.

Three hours. First term. Elective for students who presented elementary and advanced Latin for admission. *Mon., Th., Fri., at 9.25.*

2. *Cicero's Letters*

Aims and methods as in 1. *Professor* GREENE.

Three hours. Second term. Elective for students who presented elementary and advanced Latin for admission. *Mon., Th., Fri., at 9.25.*

3. *Tacitus' Germania and Agricola*

Aims and methods as in 1. *Professor* GREENE.

Three hours. Third term. Elective for students who presented elementary and advanced Latin for admission. *Mon., Th., Fri., at 9.25.*

4. *Horace's Odes and Epodes*

Critical study of the poems, supplemented by rapid reading with a view to comprehending the spirit of the author; the literary side of

‡ Of the two courses 17, 18, 19 and 20, 21, 22, only one will be offered in any given year. In determining which shall be offered, the preference of applicants will be considered.

the study is made prominent. Lectures; literary topics assigned to the class for special study. *Professor* HARKNESS.

Three hours. First term. Elective for Sophomores. *Mon., Th., Fri., at 9.25.*

5. *Catullus, Tibullus, and Propertius*

Aims and methods as in 4. *Professor* KING.

Three hours. Second term. Elective for Sophomores. *Mon., Th., Fri., at 9.25.*

6. *Satires of Horace*

Aims and methods as in 4. *Professor* HARKNESS.

Three hours. Third term. Elective for Sophomores. *Mon., Th., Fri., at 9.25.*

10, 11, 12. *Latin Prose*

Aims to give a connected and comprehensive view of the history and development of Latin prose. Forms with 7, 8, 9 a two-year consecutive course affording a general survey of Roman literature. Lectures on the lives and writings of the authors, on the development of oratory, etc.; reading of characteristic selections; special study by members of the class of assigned topics in literary history and criticism. First term, specimens of early Latin, Cicero's *Brutus*, and Quintilian. Second term, Cicero. Third term, the *Annals* of Tacitus. *Professors* HARKNESS *and* GREENE.

Three hours. Through the year. Elective for Juniors and Seniors. Each term may be elected independently. Not to be offered in 1909–10. *Tu., Th., Sat., at 12.25.*

22, 23, 24. *Latin Composition*

Professor GREENE.

One hour. Through the year. Elective for Sophomores, Juniors, and Seniors. *Fri. at 2.25.*

XXI. ROMANCE LANGUAGES AND LITERATURES

1. *Elementary Course*

Grammar, composition, dictation, conversation; translation of selections from modern authors into idiomatic English. *Professor* MORSE.

Three hours. Through the year. Required of all students who did not present French for admission. *Mon., Tu., Th., at 11.25.*

2, 3, 4. *Intermediate Course*

Reading of modern and classical authors. Review of grammar; composition and conversation based upon the texts read; dictation. *Professor* MORSE.

Three hours. Through the year. Required of all students who presented elementary French for admission. Elective for students who have credit for 1. *Wed., Fri., Sat., at 11.25.*

5, 6, 7. *French Language and Literature*

An introduction to classical and modern French literature; includes conversation based on the texts read; dictation. *Professor* JOHNSON.

Three hours. Through the year. Elective for students who presented advanced French for admission. *Tu., Wed., Sat., at 9.25.*

11, 12, 13. *French Literature, exclusive of the Drama, since 1850*

Flaubert, the Goncourts, Daudet, Zola, Taine, Loti, and others; abstracts (in French) of works read outside the class; sight reading a prominent feature. *Professor* JOHNSON.

Three hours. Through the year. Elective for students who have credit for 2, 3, 4 or 5, 6, 7. *Wed., Fri., Sat., at 11.25.*

14. *Composition*

Practice in writing French. Most appropriately taken in connection with 5, 6, 7; 8, 9, 10; or 11, 12, 13. *Mr.* HÉNIN.

One hour. Through the year. Elective for students who have taken 2, 3, 4, or are taking 5, 6, 7. *Tu. at 12.25.*

23, 24, 25. *The French Drama*

A two-year course covering the history of the French drama. The classical school from Corneille to Beaumarchais and the romantic and realistic schools from Hugo to Rostand will be taken up in alternate years. *Professor* LANGDON.

Three hours. Through the year. Elective for students who have credit for 7 or 13. *Mon., Th., Fri., at 9.25.*

26, 27, 28.† *Modern Italian*

Grammar, composition, conversation, and rapid translation of modern authors. *Professor* MORSE.

Three hours. Through the year. Elective for Juniors and Seniors, and for Sophomores not electing more than one other modern foreign language. *Mon., Tu., Fri., at 9.20.*

35, 36, 37. *Dante in English*

A study of the whole of the *Divina Commedia* in English, in the light of modern thought and in connection with other great world-poems. An introduction to a study of comparative literature by means of the best available translations. *Professor* LANGDON.

Three hours. Through the year. Elective for Juniors and Seniors. *Wed., Fri., Sat., at 11.25.*

38, 39, 40.† *Modern Spanish*

Grammar, conversation, composition, writing from dictation, and rapid reading. *Professor* JOHNSON.

Three hours. Through the year. Elective for Juniors, and for Sophomores not electing more than one other modern foreign language. *Tu., Fri., Sat., at 10.20.*

41, 42, 43.† *Spanish Language and Literature*

Selected works of classical and modern authors; composition; conversation. *Professor* JOHNSON.

Three hours. Through the year. Elective for students who have credit for 38, 39, 40. *Mon., Wed., Th., at 10.20.*

XXII. SOCIAL AND POLITICAL SCIENCE‡

POLITICAL SCIENCE

1. *Political Science, elementary*

Affords a general outline of the subject, and serves as an introduction to the more extended and special courses which follow. *Professor* DEALEY.

Three hours. Second term. Sophomore, Junior, or Senior year. Must be preceded by Economics 1. Required of candidates for the degree of Bachelor of Arts; elective for others. *Tu., Wed., Sat., at 9.25.*

SOCIAL SCIENCE

1. *Social Science, elementary*

Affords a general outline of the subject, and serves as an introduction to the more extended and special courses which follow. *Professor* DEALEY.

‡ The courses in this department other than 1 are open only to those students who have credit for Economics 1, Political Science 1, and Social Science 1, which together constitute an introduction to the advanced work of the departments of Social and Political Science and Economics.

Three hours. Third term. Sophomore, Junior, or Senior year. Must be preceded by Political Science 1. Required of candidates for the degree of Bachelor of Arts; elective for others who have credit for Political Science 1. *Tu., Wed., Sat., at 9.25.*

2. Social Institutions, Conditions, and Problems

Historical development of domestic, religious, and political institutions; study of such social problems as charity, crime, intemperance, marriage and divorce, etc. *Professor* DEALEY.

Three hours. Through the year. Elective for Juniors and Seniors. *Tu., Th., Sat., at 12.25.*

MUSIC

1, 2, 3. The Evolution of Modern Music

A general course, taking up modern composers and their works from Haydn to Wagner and Richard Strauss. Lectures, illustrations on the piano, assigned readings, and papers. Designed to give power of appreciation and interpretation with the minimum of technical detail. *Professor* MACDOUGALL.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. No previous knowledge of music required. *Mon., Th., at 11.20,* and a third hour at the pleasure of the instructor.

PHYSICAL TRAINING

Mrs. PAINE

From the close of the Thanksgiving recess to March 12, all first and second year students are required to attend gymnasium classes three times a week as follows:

SOPHOMORE DIVISION: *Mon., Tu., Th., 2.30 to 3.15.*
FRESHMAN DIVISION: *Mon., Tu., Th., 3.25 to 4.10.*

ORGANIZATION OF THE WOMEN'S COLLEGE‡

INSTRUCTION for undergraduate women § is provided by a department of the University known as THE WOMEN'S COLLEGE IN BROWN UNIVERSITY. The aim of the Women's College is to offer to all properly prepared women

‡Bulletins of the Women's College may be obtained from the Registrar, The Women's College in Brown University, Providence, R. I. For information not contained in this Catalogue or in the Bulletins, apply to the Dean of the Women's College.

§In the Graduate Department of Brown University all courses intended for graduate students are open to women on the same terms as to men.

the same examinations, the same courses of study under the same teachers, and the same degrees that the University offers to men, but to preserve the distinct social life of a separate college.

The Corporation of the University assumes supervision and control of the Women's College as of other departments of the University, and for this purpose appoints annually an Executive Committee of the Women's College. The Corporation receives gifts of money to found scholarships, fellowships, and professorships in Brown University for the benefit of its women students, and for the general purposes of the Women's College, and holds and administers such funds as separate and distinct from the general funds of the University. All gifts, legacies, and bequests for the Women's College, like those meant for any other department of the University, should be made payable to "Brown University, in Providence, in the State of Rhode Island and Providence Plantations."

The President of the University is charged with the general direction, supervision, and government of this College as of other departments of the University. The immediate direction, supervision, and control devolve, subject to the direction of the President, on the Dean of the Women's College. An Advisory Council, appointed under the authority of the Corporation, advises with the President and the Dean upon matters relating to the Women's College, and makes recommendations to the Executive Committee of the Women's College or to the Corporation.

The Faculty of the Women's College is composed of the heads of all departments of instruction in Brown University, together with all professors and instructors who are actually teaching in the College.

The Women's College has a separate recitation hall, gymnasium, and dormitory, but uses the various libraries, laboratories, and museums of the University. For a description of these latter buildings, see pages 148–156. The grounds of the Women's College are an eighth of a mile from the University, with the main entrance at 172 Meeting Street. Pembroke Hall, the recitation building, contains the offices of the Dean and the Registrar, recitation rooms, a reading room and a library, a study, a chapel, and a lunch room. The Sayles Gymnasium contains the offices of the Instructor in Physical Training, a large hall with a gallery, a rest room, a study hall, and recitation rooms; the basement is fitted up with dressing rooms, bathrooms, lockers, needle and shower baths, and bowling alleys. The dormitory, the Slater Memorial Homestead, at 66 Benefit Street, has, in addition to the reception, living, and dining rooms, and the apartment occupied by the Head of the house, sleeping rooms for twenty-two students.

REQUIREMENTS FOR ADMISSION

The requirements for admission to the Women's College are the same as those which the University prescribes for men. For information concerning admission

by certificate or examination, and the times and places of examinations, see pages 41–43. Certificates and applications for permission to take examinations should be sent to the Registrar of the University. For the entrance requirements for the various degrees, admission to advanced standing, and admission of special students, see pages 43–54. Each applicant for registration as a special student must consult the Dean of the Women's College before registering.

REGISTRATION AND ENROLMENT

The regulations governing registration and enrolment are the same at the Women's College as at the University. (See pages 55, 56.) All students must apply for registration and enrolment at the office of the Registrar of the Women's College, in Pembroke Hall, between 9 a.m. and 12 m., or between 2 p.m. and 4 p.m., on the same days as at the University. Permission to change a previous registration must be obtained from the Dean, on the same days and at the same hours.

REQUIREMENTS FOR DEGREES

The requirements for the various degrees are explained on pages 58–64. Upon students of the Women's College who complete satisfactorily the work leading to the degree of Bachelor of Arts, Bachelor of Philosophy, or Bachelor of Science, the Board of Fellows of the University confers the appropriate degree. For the degrees conferred in 1908, see pages 180–182.

EXAMINATIONS

As a rule women take the same examinations as those offered to men, and at the same times and places. When a separate examination is necessary, the two examinations are made as nearly identical in character as possible. (See pages 68, 69.)

PHYSICAL TRAINING AND MEDICAL CARE

From the close of the Thanksgiving recess to the end of the second term three hours a week of physical training are required of first and second year students; for other students voluntary classes are held. All work, including outdoor work, is under the supervision of the instructor. At the beginning of their Freshman and Sophomore years, students are carefully examined both by the College Physician and by the Director of the Department. Early each fall the College Physician gives five lectures on Personal Hygiene at which attendance is required of all new students. Any student may in case of illness visit or summon the College Physician; for this first call no fee is charged.

FEES

Students at the Women's College pay the same fees as other students of the University. (See pages 164, 165.) No deduction in tuition is made on account of absence. One-half of the tuition and of the incidental expenses must be

paid in advance; the remainder is due January 1. Laboratory fees, etc., must be paid two weeks before the close of a term.

Special students at the Women's College are charged $10 a term for each course holding three recitations a week. Laboratory fees are in addition to this.

DORMITORY ACCOMMODATIONS

The College dormitory contains six double rooms and nine single rooms, adequately furnished. For a single room and for half of a double room, together with board, the charge is $250 a year. One-third of this sum is payable on or before October 23, February 6, and April 30. Laundry work is charged extra. The price for meals, without a room, is $4.25 a week. Students who do not live at home or in the College dormitory are required to live in houses authorized by the College; a list of addresses may be secured from the Registrar.

Each student renting a room in the dormitory must sign a contract therefor in the form given below, on which surety may be demanded, binding her to pay or cause to be paid the rent of the room through the entire year. Where two students rent a room together, each must sign a contract for half the room expenses. This obligation is not impaired by the student's removal from the College, whatever the cause of such removal.

The following is a contract between the Women's College in Brown University, party of the first part, and the undersigned, party of the second part. I hereby engage room No. in Slater Memorial Homestead; the same not to be occupied by any other person without consent of the party of the first part, and I bind myself to pay or cause to be paid to the Dean of the Women's College in Brown University the entire rent, including heat and service, amounting to $ for the college year beginning September, 190 .

It is a part of this agreement that I shall be held responsible for all damage or defacement of such room or its furniture, ordinary wear excepted; also that disuse of the room by me on account of illness, or in case registration is refused me owing to low standing or bad conduct, does not impair the obligation of this contract.

*Signed*_____

This day of 190 .

LOAN FUNDS AND SCHOLARSHIPS

The College has a loan fund and various scholarships designed to aid deserving students. Aid is given only to students whose work is creditable, and is withdrawn if the recipients become deficient in scholarship or subject to college discipline. Applications should be made in writing to the Dean of the Women's College on or before May 1. Awards are made after July 1. A list of the funds and scholarships follows.

The Rhode Island Society for the Collegiate Education of Women has

founded a Loan Fund from which students of the Women's College who have completed their first year may borrow small sums on easy terms. This fund is available only for students whose record for scholarship is satisfactory to the committee which administers the loans. Further information may be obtained from the Dean.

The Rhode Island Women's Club annually devotes the income of its Churchill Fund toward the payment of the tuition of some student in the Women's College, preferably the daughter of a member of the Club.

The College awards annually from its own funds scholarships of varying amounts, to students in need of financial aid. There are also the following endowed scholarships:

The Sarah E. Doyle Scholarship, of one thousand dollars, founded by the lady whose name it bears, the income to be applied toward the payment of the tuition of students in the Women's College who have been prepared for college in the Providence English High School.

The Sarah Sutton Scholarship, of one thousand dollars, founded by one of her daughters.

The Daniels Scholarship, of twenty-five hundred dollars, the income to be used toward paying the expenses of one or more women pursuing studies either in the University or in the Women's College adjunct thereto.

The Howard Scholarship, of one thousand dollars, presented by James Leland Howard of Hartford, Conn.

The Thayer Scholarship, founded by Edward C. Thayer, in honor of his father, Joseph Thayer, of the class of 1815, the income to be for the education of any young man or woman a resident of Uxbridge, Mass., endorsed by the selectmen and superintendent of schools there, needing pecuniary aid, and giving promise by character and scholarship of a life of usefulness. If there is no applicant from Uxbridge, the income may go to any applicant from Massachusetts who fulfils the conditions.

The Maria Storrs Peck Scholarship, of one thousand dollars, presented by her sisters in 1908.

PRIZES, PREMIUMS, AND HONORS

The Gaspee Chapter Daughters of the American Revolution Prize. This prize of forty dollars is awarded annually to that student in the graduating class of the Women's College who shall present the best essay of recognized merit upon some topic in American history. The essays are to bear each an assumed name, and to be accompanied by an envelope marked with the assumed name and enclosing the candidate's real name and address. The essays must be handed to the Dean before May 1. The award is announced on Commencement Day. The topic for 1908–9 is: *The Rhode Island Loyalists in the American Revolution.*

The Chace Prize. The will of Mrs. Elizabeth D. Chace makes provision for a prize of twenty-five dollars, to be awarded for a term of years to that student of the Women's College who shall present the best essay, of recognized merit, upon the Women's Suffrage Movement.

The Society of Colonial Dames Prize in American History. The income of a fund of fifteen hundred dollars, known as the Roger Williams Fund established by the National Society of Colonial Dames in the State of Rhode Island and Providence Plantations, given to the University in 1906, is awarded annually as a prize for the best essay on a subject in American colonial history. The competition is open to Juniors, Seniors, and Graduates, and to men and women on equal terms. Essays must show independent use of authorities, and should, in general, extend to at least four thousand words. Detailed regulations governing the competition are announced from year to year, and the name of the successful competitor is announced at Commencement. The subject for the essay in 1908–9 is: *The history of Rhode Island, principally with reference to the relations between the colony and Great Britain, from 1685 to 1700.*

Additional Premiums. The students of the Women's College are entitled to compete in all examinations for premiums and prizes offered in Brown University. In case any woman is entitled to a first premium, competed for by examination, a prize, the amount of which is duly announced, is awarded by the Dean.

Final Honors are awarded by the University to women on the same conditions as to men. (See page 179.)

PRIZES AND PREMIUMS AWARDED IN 1907–8‡

The Gaspee Chapter Daughters of the American Revolution Prize, to Marjorie Whitney Stevens.

The Philosophical Prizes, to Katherine Everett and Abbie Howard Keith.

The Chace Prize, to Gertrude Hildreth Campbell.

The Lucius Lyon Premiums in Latin: a collateral first premium to Ruth Leonard Foster.

The Foster Premium in Greek: a collateral first premium to Ruth Leonard Foster.

‡For the list of students receiving Final Honors, see page 179.

LIST OF STUDENTS ARRANGED BY CLASSES

SENIORS: CLASS OF 1909

NAME	RESIDENCE
Carrie Ethel Baker	*Fairhaven, Mass.*
Lida May Bassett	*Plymouth, Mass.*
Mattie Lucina Beattie	*Brunswick, Vt.*
Agnes Marie Blaine	*New York, N. Y.*
Lucile Murray Blanchard	*Uxbridge, Mass.*
Agnes Gertrude Brown	*Providence*
Hazel McCrum Buckey	*Central Falls*
Ada Irene Burton	*Pawtucket*
Nettie Louise Butler	*Providence*
Anna Clarke Carpenter	*Manton*
Helen Frances Crawshaw	*Providence*
Mary Carr Crowell	*Warren*
Charlotte Christabell Delany	*Pawtucket*
Mildred Diman	*Melrose, Mass.*
Elizabeth Mary Eaton	*Grasmere, N. H.*
Frances Allen Foster	*Providence*
Marguerite Grace Frost	*Providence*
Irma Alida Gyllenberg	*Providence*
Ellyn Marguerite Hague	*Cumberland Hill*
May Winsor Hall	*Providence*
Agnes Jonas	*Providence*
Irene Lydia Laraway	*Providence*
Emma Dunham Lee	*Newport*
Margaret Currier Lyon	*Providence*
Gertrude May Marble	*Attleboro, Mass.*
Bessie Louise Mayo	*Milton, N. H.*
Elise Emeline McCausland	*Providence*
Louise McNerney	*Attleboro, Mass.*
Margaret Julia Morgan	*Providence*
Maude Bixby Nichols	*Providence*
Mary Loretta O'Brien	*Warren*
Ethel Fanning Riley	*Providence*
Cora Collette Robinson	*Providence*
Josephine Thomson Sackett	*Providence*
Myra Melissa Sampson	*Fall River, Mass.*
Annie Martha Sanders	*Bristol, N. H.*
Isabelle Douglas Scott	*Jersey City, N. J.*

NAME	RESIDENCE
Bina May Shorey	*Providence*
Margaret Bingham Stillwell	*Providence*
Mabel Winifred Tourtellot	*Providence*

JUNIORS: CLASS OF 1910

Gertrude Mary Allen	*Riverside*
Gwendolen Blodgett	*Providence*
Elizabeth Marie Boardman	*Providence*
Dorothy Bourne	*Pontiac*
Alma Romaine Brown	*Attleboro, Mass.*
Harriet Josephine Buck	*Mansfield, Mass.*
Annie Esther Burnside	*Pawtucket*
Mabel Kincaid Bushell	*Providence*
Alice Frances Cook	*Georgiaville*
Frances Julia Corp	*Providence*
Lillian Ruth Cosgrove	*Brockton, Mass.*
Florence Alice Crossley	*Providence*
Marion Elizabeth Dean	*Taunton, Mass.*
Lydia Theodora Dobler	*Providence*
Margaret Amy Gifford	*Providence*
Helen Emilie Gindele	*Pawtucket*
Clara Estelle Hefner	*Southbridge, Mass.*
Mabel Irene Hinton	*Plainville, Mass.*
Alice Scott Maile	*Los Angeles, Cal.*
Elizabeth Morrison	*Providence*
Caroline Millard Morton	*Providence*
Nellie Blithe Nicholson	*Baltimore, Md.*
Flora Marie Rausch	*Providence*
Hazel Louise Raybold	*Providence*
Marion Augusta Richards	*Attleboro, Mass.*
Bernice Estelle Sears	*Providence*
Abbie Deborah Steere	*Hingham Centre, Mass.*
Marjorie Maud Stone	*Providence*
Mary Clegg Suffa	*Providence*
Alice Ida Sweet	*Providence*
Leila Tucker	*Providence*
Alice Mary Wilbur	*Mansfield, Mass.*
Mildred Corinne Williams	*Providence*
Isabel Stuart Wood	*East Greenwich*

SOPHOMORES: CLASS OF 1911

Lydia Harris Andrews	*Providence*
Irene Maude Bedell	*Livingston, N. J.*

NAME	RESIDENCE
Helen Newell Bell	*Bristol*
Bessie Edith Bloom	*Providence*
Ruth Constance Burroughs	*Pawtucket*
Annie Louise Campbell	*Providence*
Gertrude Hildreth Campbell	*East Providence*
Edith Marie Linnea Carlborg	*Providence*
Alletta Kreemer Chamberlain	*Central Falls*
Gertrude Clampitt	*North Attleboro, Mass.*
Stella Risley Clemence	*Providence*
Rachael Abbie Coolidge	*Pasadena, Cal.*
Lyla Cameron Crapo	*Taunton, Mass.*
Emma Henrietta Dahlgren	*Attleboro, Mass.*
Mary Catherine Furlong	*Pomfret Centre, Ct.*
Stella Gerber	*Webster, Mass.*
Mildred Annie Hatch	*Riverside*
Sadie Hewitt	*Attleboro, Mass.*
Alice Frances Hildreth	*Providence*
Alice Dudley Holman	*Taunton, Mass.*
Edith Lauraette Knights	*Riverside*
Marion Bowler Lester	*Newport*
Catherine Virginia Golding Levere	*Bristol*
Maybelle Rhoda Mackie	*Providence*
Eva Waterman Magoon	*Providence*
Mary Catherine McMahon	*Pawtucket*
Sallie Wolff Mielatz	*Saunderstown*
Jeannette Bell Moffitt	*Providence*
Mildred Louise Mott	*Providence*
Irene Doré Nelson	*New Bedford, Mass.*
Hannah Senior Nicholson	*Pawtucket*
Catherine Frances Nulty	*Woonsocket*
Bertha Annie Payson	*Rockport, Me.*
Clara Irene Perry	*Providence*
Naomi Williams Read	*Pawtucket*
Jennie Fatima Robinson	*Brockton, Mass.*
Clara Ailman Stanhope	*Newport*
Elizabeth Dexter Thacher	*Pawtucket*
Grace Mehitabel Thompson	*West Townsend, Mass.*
Flora Ella Wilbur	*Natick*
Marjorie Phillips Wood	*Taunton, Mass.*
Nina Emma Woodbury	*Providence*

FRESHMEN: CLASS OF 1912

NAME	RESIDENCE
Elsie Angelène Anderson	*East Bridgewater, Mass.*
Lottie Maria Angell	*Pomfret, Ct.*
Rose Mary Bancroft	*Glastonbury, Ct.*
Harriet Colburn Bennett	*Providence*
Cynthia Agnes Bishop	*Pawtucket*
Mildred Catherine Bishop	*North Attleboro, Mass.*
Annie Phillips Borland	*Providence*
Sara Doolittle Burge	*Edgewood*
Gertrude Morton Butler	*Mansfield, Mass.*
Elinor Margaret Caldwell	*Pawtucket*
Marion Frances Catlin	*Hill, N. H.*
Margaret Brooks Church	*Providence*
Margaret Griswold Collins	*Bridgeport, Ct.*
Gertrude Mary Conant	*Pawtucket*
Mildred Ernestine Crumley	*Danielson, Ct.*
Marion Jane Emsley	*Pascoag*
Minnie May Fogg	*Laconia, N. H.*
Irene Hawes	*Riverside*
Alice Hubbard	*Providence*
Elizabeth Wilson Hughes	*Avalon, Pa.*
Sybil Marguerite Kemp	*Kingston, N. H.*
Beatrice Florence Kohlberg	*Providence*
Esther Matilda Lindblom	*Providence*
Regina Theresa Loftus	*North Adams, Mass.*
Clare Edgarton Longley	*Worcester, Mass.*
Clara Belle Manchester	*Providence*
Jessie Isabelle Monroe	*Providence*
Ida May Nichols	*Providence*
Annie Pickles	*Providence*
Ollie Annette Randall	*Providence*
Ruth Sutcliffe Riley	*Central Falls*
Clarice Emily Ryther	*Norwich, Ct.*
Florence Binford Southwick	*Pawtucket*
Carol Frances Spratt	*Philadelphia, Pa.*
Margaret Parkhurst Stevens	*Newport*
Marion Slater Stone	*Providence*
Mary Sweetland	*Providence*
Hazel Marguerite Valentine	*Westbrook, Me.*
Dorothy Charlotte Walter	*Lyndonville, Vt.*
Irene Warren	*New Haven, Ct.*
Marjorie Adelle White	*Danforth, Me.*

NAME	RESIDENCE
Dorothy Starr Wood	*Providence*
Florence Ethel Yahraus	*Woonsocket*

SPECIAL STUDENTS

Mela Elsie Bennett	*Providence*
Caroline Alden Blodgett	*Pawtucket*
Gertrude Marion Brown	*Providence*
Alice Huntington Bushée	*Woonsocket*
Florance Hoover Bushell	*Providence*
Ethel May Campbell	*Elyria, O.*
Alice Regina Collins	*Providence*
Laura Elizabeth Cooke	*Providence*
Sarah Cranston	*Providence*
Arline Field	*Providence*
Mabel Eunice Guile	*Providence*
Jessie Hosmer Hunt	*Providence*
Charlotte May Huntoon	*Providence*
Mildred Mason	*Providence*
Mary Helena McArdle	*Attleboro, Mass.*
Jessie Crum Meiklejohn	*Pawtucket*
Eileen Elizabeth O'Connor	*Providence*
Elizabeth Rice Smith	*Auburn*
Josephine Tillinghast Williams	*Providence*

APPENDIX

* * *

THE BROWN UNIVERSITY TEACHERS' BUREAU

THE Brown University Teachers' Bureau was established for the purpose of communicating with institutions desiring to employ graduates of Brown as teachers. To this end it solicits correspondence with those who are seeking well equipped teachers, and invites inspection of the list of such teachers now registered. It advises graduates of Brown who wish its assistance to register at once, and, if possible, to meet the Secretary in a personal interview. It offers to undergraduates information as to subjects in which there is a demand for teachers, as to positions commonly open to recent graduates, and as to the preparation usually required. No charge for the services of the Bureau is made either to students or to schools. It is the further purpose of the Bureau to foster coöperation between the University and all graduates engaged in the work of education. As far as possible an accurate register of the addresses and the positions of all such graduates is kept. The office of the Secretary, Professor WALTER BALLOU JACOBS, is in the Administration Building, Room 10.

THE BROWN UNIVERSITY TEACHERS' ASSOCIATION

The Brown University Teachers' Association was organized in 1903. The purpose of the Association is "first, to further the mutual interests of Brown University and the schools preparing students therefor; and second, to promote the welfare of the Alumni of the University who are teachers." The sixth annual meeting of the Association was held at Brown University on Friday and Saturday, March 20 and 21, 1908.

OFFICERS FOR 1908–9

President: CHARLES EDWARD DENNIS, PH.D.
1st Vice-President: Professor NATHANIEL FRENCH DAVIS, LL.D.
2d Vice-President: ISAAC BRONSON BURGESS, A.M.
Secretary: Professor WALTER BALLOU JACOBS, A.M.
Treasurer: CLARENCE HARTWELL MANCHESTER, A.M.

Executive Committee: The Officers of the Association and the President of the University, *ex officio;* Seth Kelley Gifford, Ph.D.; George Wyllys Benedict, Ph.D.; Minnie Catherine Mahy, A.M.

THE RHODE ISLAND ALPHA OF THE PHI BETA KAPPA SOCIETY

OFFICERS AND COMMITTEES FOR 1908–9

President: Professor Walter Goodnow Everett, Ph.D.

Vice-President: Rev. William Henry Lyon, D.D.

Secretary: Professor Otis Everett Randall, Ph.D.

Treasurer: Robert Perkins Brown, A.M.

Committee on Nominations: Professor Winslow Upton, Sc.D., Henry Frederic Lippitt, A.B., Charles Talbot Dorrance, A.B., Daniel Beckwith, A.B., Harold Crins Field, A.B.

Committee on Arrangements: Professor Walter Goodnow Everett, Ph.D., Hon. Charles Carney Mumford, A.M., Hon. William Wilberforce Douglas, LL.D.

Auditing Committee: Walter James Towne, A.M., William Washburn Moss, A.M.

Committee on New Chapters: Professor Otis Everett Randall, Ph.D., Professor Walter Ballou Jacobs, A.M., Rev. Thomas Elliott Bartlett, A.B.

MEN ELECTED IN 1908

Seniors: Samuel Jacob Beeber, Ralph Philip Boas, Irving Haven Coffin, Harry Duffield Clough, Homer Bailey Hunt, Harold William Lyall, Frank Fenner Mason, Leon Ernest Varnum.

Juniors: Robert Kershaw Bennett, Frederick May Boyce, Charles Lewis Brightman, Donald Graham Clark, James Greenan Connolly, Albert Moses Cristy, James Davis Dean, John Seymour Sweetland, Frank Carter Taylor, Chauncey Earle Wheeler, Leslie Stephen High, '08, Robert Wilbur Burgess, '08.

WOMEN ELECTED IN 1908

Seniors: Laura Cindarella Brant, Ruth Leonard Foster, Cora Ella Medbury, Emilie Marie Louise Wildprett.

Juniors: Carrie Ethel Baker, Ada Irene Burton, Frances Allen Foster.

THE BROWN CHAPTER OF THE SOCIETY OF THE SIGMA XI

Students who have taken at least seventy-eight term hours in pure or applied science are, in their Senior year, eligible to membership in the honorary sci-

entific society, Sigma Xi, provided that they have "given promise of marked ability in those lines of work which it is the object of the Society to promote."

OFFICERS AND COMMITTEES FOR 1908-9

President: Professor John Edward Hill, Sc.D.
Vice-President: Professor Albert deForest Palmer, Jr., Ph.D.
Recording Secretary: Professor Charles Wilson Brown, A.M.
Corresponding Secretary: Professor Ansel Brooks, Ph.B., M.E.
Treasurer: Professor James Franklin Collins, Ph.B.
Auditor: Professor Thurston Mason Phetteplace, Ph.B., M.E.
Councillor: Professor John Edward Hill, Sc.D.
Committee on Nominations: Professor Arthur Horace Blanchard, A.M., Professor Albert deForest Palmer, Jr., Ph.D., Professor Charles Wilson Brown, A.M., Professor Nathaniel French Davis, A.M., LL.D., Professor Albert Davis Mead, Ph.D.

MEMBERS ELECTED IN 1908

Graduate Student: Frederick George Keyes (Rhode Island College).
Seniors: Laura Cindarella Brant, Frederick Eugene Banfield, Jr., Samuel Joseph Beeber, Henry Pomeroy Stacy, Harlan True Stetson, Wade Clarence West.

THE ASSOCIATED ALUMNI

OFFICERS AND COMMITTEES FOR 1908-9

President: Rt. Rev. Frederick Burgess, D.D., Garden City, N.Y.
Vice-Presidents: Samuel Hanson Ordway, A.M., New York City, William Howard Sweetland, A.M., Providence, R.I.
Secretary: Albert Knight Potter, A.M., Providence, R.I.
Treasurer: Robert Wendell Taft, Ph.B., Providence, R.I.
Executive Committee: John Russell Gladding, A.B., Frank Willington Matteson, Ph.B., John Byron Diman, A.M., Henry Allen Whitmarsh, M.D., James Monroe Pendleton, A.M.
Advisory Committee: Charles Carney Mumford, A.M., William Richardson Dorman, LL.B., George Fremont Bean, LL.B., Albert Knight Potter, A.M., *ex officio*, and representatives to be chosen by the Alumni Associations.

THE ALUMNAE ASSOCIATION OF BROWN UNIVERSITY

OFFICERS FOR 1908-9

President: Mrs. William Thomson Hastings, A.B., Providence, R.I.
Vice-President: Miss Harriet Barrows Utter, A.M., Providence, R.I.

Recording Secretary: Miss Mary Beecher Leonard, A.M., Providence, R.I.
Corresponding Secretary: Miss Flora Melville Cotton, A.B., 16 Humboldt Avenue, Providence, R.I.
Treasurer: Miss Florence Josephine Whiting, A.M., Briarcliff Manor, N.Y.

ALUMNI ASSOCIATIONS

Boston. *President*, John M. English, '70. *Vice-President*, George F. Bean, '81. *Treasurer*, Fred W. Woodcock, '91. *Secretary*, Charles E. Clift, '97, 22 Tremont Row, Boston.

Newport. *President*, Alan R. Wheeler, '01. *First Vice-President*, William R. Harvey, '01. *Second Vice-President*, William P. Buffum, '79. *Secretary and Treasurer*, Clarence A. Carr, '87, 209 Spring Street, Newport, R.I.

Woonsocket. *President*, Frank E. McFee, '75. *Vice-President*, Arthur M. M. Comee, '99. *Treasurer*, L. Herbert Ballou, '94. *Secretary*, Frederic E. Whitaker, '88, Woonsocket, R.I.

Fall River. *President*, Edward A. Thurston, '93. *Vice-President*, John P. Gage, '92. *Secretary and Treasurer*, Augustus J. Wood, Ex. '95, Fall River, Mass.

Worcester County Sons of Brown. *President*, Charles L. Nichols, '72. *Vice-President*, Frank H. Staples, '94. *Secretary and Treasurer*, John A. Clough, '99, 532 State Mutual Building, Worcester, Mass.

Connecticut Valley. *President*, Augustus P. Record, '92. *Vice-President*, Scott Adams, '95. *Secretary and Treasurer*, Walter H. Mitchell, '00, Care F. A. Bassette Co., Springfield, Mass.

New Bedford. *President*, Clarence M. Gallup, '96. *First Vice-President*, Allen F. Wood, '69. *Second Vice-President*, Theodore B. Baylies, '95. *Secretary and Treasurer*, Fred W. Greene, Jr., '02, 175 Williams Street, New Bedford, Mass.

Washington and New London Counties. *President*, Henry R. Palmer, '90. *Secretary*, Charles I. Gates, '99, Westerly, R.I.

Bristol. *President*, Augustus O. Bourne, '55. *Vice-Presidents*, Nathaniel G. Herreshoff, h. '96. William R. Trotter, '80. *Treasurer*. Clinton T. Sherman Ex. '93. *Secretary*. Lyndon L. Anderström, 70 Church Street, Bristol, R.I.

New York City. *President*, Samuel H. Ordway, '80. *Vice-President*, John B. F. Herreshoff, '70. *Treasurer*, William R. Dorman, '92. *Secretary*, Alfred B. Meacham, '96, 59 Wall Street, New York, N.Y.

Albany. *Honorary President:* Charles E. Hughes, '81. *President*, Edward W. Babcock, '74. *Vice-President*, Collins M. Graves, Ex. '95. *Treasurer*, Crawford R. Green, '02. *Secretary*, Stewart A. McComber, '96, Union College, Schenectady, N.Y.

Central New York. *President*, F. R. Hazard, '81. *Vice-President*, J. S. Fox, '94. *Secretary and Treasurer*, W. G. Bullard, '92, 613 South Crouse Avenue, Syracuse, N. Y.

Rochester. *President*, C. A. Barbour, '88. *Secretary and Treasurer*, H. C. Peepels, '81, 188 Harvard Street, Rochester, N. Y.

Philadelphia. *President*, George H. Ferris, '91. *First Vice-President*, Frank A. Smith, '89. *Second Vice-President*, E. S. Thompson, '86. *Treasurer*, Pierson T. Fort, Ex. '95. *Secretary*, W. H. Bennett, h. '84, 1837 Chestnut Street, Philadelphia, Pa.

Pittsburgh. *President*, William E. Lincoln, '68. *Vice-President*, Charles H. Zug, '54. *Secretary and Treasurer*, Charles A. Powers, '02, Westinghouse Building, Pittsburgh, Pa.

Maryland and District of Columbia. *President*, William A. Wilbur, '88. *Vice-President*, Marcus W. Lyon, '97. *Secretary and Treasurer*, William A. Slade, '98, Library of Congress, Washington, D. C.

Cleveland. *President*, Franklin J. Dickman, '46. *Vice-President*, Frank P. Whitman, '74. *Secretary and Treasurer*, Frederick H. Sibley, '98, Case School of Applied Science, Cleveland, Ohio.

Cincinnati. *President*, Eliab W. Coy, '58. *Vice-President*, William H. Pabodie, '55. *Secretary*, Samuel W. Smith, '80, Madison Road, Cincinnati, Ohio.

Chicago. *President*, Julius A. Johnson, '82. *Vice-President*, George Packard, '89. *Secretary and Treasurer*, Frank L. Morse, '86, 6432 Monroe Avenue Chicago, Ill.

Northwestern. *President*, Claude E. Stevens, '91. *Treasurer*, William G. Jones, Ex. '90. *Secretary*, Moncrieffe Cameron, '00, Seattle, Wash.

St. Louis. *President*, David S. H. Smith, '62. *Treasurer*, John B. Edwards, '96. *Secretary*, Augustus L. Abbott, '80, Times Building, St. Louis, Mo.

Rocky Mountain. *President*, Franklin E. Brooks, '83. *Vice-President*, Charles P. Bennett, '79. *Treasurer*, C. Henry Smith, '99. *Secretary*, Charles P. Bennett, '79, Colorado Springs, Col.

Japan. *President*, Albert A. Bennett, '72. *Secretary*, Walter B. Bullen, '99, 27 Nakajima Cho, Sendai, Japan.

TABLE SHOWING RENT AND LOCATION OF DORMITORY ROOMS

HOPE COLLEGE

No.	*Division*	*Floor*	*Windows face*	*Bedrooms*	*Rent*
1	South	1	E. & S.	There are no separate bedrooms, but Nos. 1 and 2, 5 and 6, 9 and 10, 35 and 36, 39 and 40, 43 and 44, can be used either as suites or as single rooms.	$126
2	"	"	W. & S.		132
3	"	"	W.		126
4	"	"	E.		123
5	"	2	E. & S.		126
6	"	"	W. & S.		132
7	"	"	W.		126
8	"	"	E.		123
9	"	3	E. & S.		117
10	"	"	W. & S.		123
11	"	"	W.		117
12	"	"	E.		111
13	"	4	E. & S.		111
14	"	"	W. & S.		117
15	"	"	W.		111
16	"	"	E.		108
17	Middle	1	E.		123
18	"	"	W.		126
19	"	"	W.		126
20	"	"	E.		123
21	"	2	E.		123
22	"	"	W.		126
23	"	"	W.		126
24	"	"	E.		123
25	"	3	E.		111
26	"	"	W.		117
27	"	"	W.		117
28	"	"	E.		111
29	"	4	E.		108
30	"	"	W.		111
31	"	"	W.		111
32	"	"	E.		108
33	North	1	E.		123
34	"	"	W.		126
35	"	"	W.		138
36	"	"	E.		138
37	"	2	E.		123
38	"	"	W.		126
39	"	"	W. & N.		138
40	"	"	E. & N.		138
41	"	3	E.		111
42	"	"	W.		117
43	"	"	W. & N.		126
44	"	"	E. & N.		126
45	"	4	E.		108
46	"	"	W.		111
47	"	"	W. & N.		117
48	"	"	E. & N.		117

UNIVERSITY HALL

No.	*Division*	*Floor*	*Windows face*	*Bedrooms*	*Rent*
4	South	1	W.	*None*	$130
10	"	2	S. & W.	2	250
12	"	"	W.	*None*	115
13	"	"	W.	"	115
16	"	"	E.	"	100
17	"	"	E.	"	106
18	"	"	E. & S.	"	133
19	"	3	S. & W.	2	240
21	"	"	W.	*None*	112
22	"	"	W.	"	112
25	"	"	E.	"	100
26	"	"	E.	"	100
27	"	"	E. & S.	"	121
28	"	4	S. & W.	2	220
30	"	"	W.	*None*	100
31	"	"	W.	"	100
33	"	"	E.	"	97
34	"	"	E. & S.	"	121
36	North	1	W.	"	130
40	"	2	W.	"	115
41	"	"	W.	"	115
43	"	"	W. & N.	2	250
44	"	"	E. & N.	*None*	121
45	"	"	E.	"	106
46	"	"	E.	"	106
47	"	3	W.	"	106
48	"	"	W.	"	106
50	"	"	W. & N.	2	240
51	"	"	E. & N.	*None*	115
52	"	"	E.	"	100
53	"	"	E.	"	100
54	"	4	W.	"	100
55	"	"	W.	"	100
57	"	"	W. & N.	2	210
58	"	"	E. & N.	*None*	115
59	"	"	E.	"	97
60	"	"	E.	"	97

SLATER HALL

1	South	1	E. S. & W.	2	260.00
2	"	"	E. & W.	1	200.00
3	"	2	E. S. & W.	2	260.00
4	"	"	E. & W.	2	245.00
5	"	3	E. S. & W.	2	250.00
6	"	"	E. & W.	2	245.00
7	"	4	E. S. & W.	1	175.00
8, 9	"	"	W.	1	194.00
10	North	1	E. & W.	2	269.50
11	"	"	E. W. & N.	2	269.50

SLATER HALL (*continued*)

No.	*Division*	*Floor*	*Windows face*	*Bedrooms*	*Rent*
12	North	2	E. & W.	2	$269.50
14	"	"	W. N. E.	2	286.00
15	"	3	W. & E.	2	264.00
17	"	"	W. N. E.	2	275.00
18, 19	"	4	E. & W.	1	206.80
20	"	"	W. N. E.	1	176.00

CASWELL HALL

1	North	1	E. N. & W.	1	375
2	"	"	E. & W.	1	350
3	"	2	E. N. & W.	2	375
4	"	"	E. & W.	2	350
5	"	3	E. N. & W.	2	375
6	"	"	E. & W.	2	350
7	"	4	E. & N.	*None*	195
8	"	"	W. &. N.	"	195
9	"	"	W.	"	165
10	"	"	E.	"	165
11	Middle	1	"	"	175
12	"	"	W.	"	175
13	"	"	"	"	175
14	"	"	E.	"	175
15	"	2	"	"	185
16	"	2	W.	"	185
17	"	"	"	"	185
18	"	"	E.	"	185
19	"	3	"	"	185
20	"	"	W.	"	185
21	"	"	"	"	185
22	"	"	"	"	185
23	"	4	E.	"	165
24	"	"	W.	"	165
25	"	"	"	"	165
26	"	"	E.	"	165
27	South	1	E. & W.	1	350
28	"	1	E. S. & W.	1	375
29	"	2	E. & W.	2	350
30	"	"	E. S. & W.	2	375
31	"	3	E. & W.	2	350
32	"	"	E. S. & W.	2	375
33	"	4	E.	*None*	165
34	"	"	W.	"	165
35	"	"	W. & S.	"	195
36	"	"	E. & S.	"	195

MAXCY HALL

No.	*Floor*	*Windows face*	*Rent*
313	3	E.	$140
314	"	"	140
315	"	E. & S.	140
316	"	W. & S.	135
317	"	W.	135
318	"	"	135
319	"	"	135
320	"	"	135
321	"	W. & N.	135
322	"	E. & N.	140
323	"	E.	140
324	"	"	140
425	4	"	140
426	"	"	140
427	"	E. & S.	140
428	"	W. & S.	135
429	"	W.	135
430	"	"	135
431	"	"	135
432	"	"	135
433	"	W. & N.	135
434	"	E. & N.	140
435	"	E.	140
436	"	"	140

DIRECTORY TO THE DORMITORIES

Hope College, South Division, Rooms 1 to 16.
Hope College, Middle Division, Rooms 17 to 32.
Hope College, North Division, Rooms 33 to 48.
Maxcy Hall, Rooms 313 to 436.
Slater Hall, South Division, Rooms 1 to 9.
Slater Hall, North Division, Rooms 10 to 20.
University Hall, South Division, Rooms 1 to 34.
University Hall, North Division, Rooms 35 to 61.
Caswell Hall, North Division, Rooms 1 to 10.
Caswell Hall, Middle Division, Rooms 11 to 26.
Caswell Hall, South Division, Rooms 27 to 36.

SUMMARY OF STUDENTS

UNDERGRADUATE MEN

Seniors	140
Juniors	131
Sophomores	170
Freshmen	243
Special Students	42
Total	726

THE WOMEN'S COLLEGE

Seniors	40
Juniors	34
Sophomores	42
Freshmen	44
Special Students	19
Total	179

GENERAL SUMMARY

Graduates	92
Undergraduate Men	726
Women's College	179
	997
Deduct for names counted twice	4
Total	993

DIRECTORY OF OFFICERS AND STUDENTS

The addresses given are in Providence, unless otherwise stated. If an officer is on leave of absence for the year, his name is bracketed. The following abbreviations are used: *Fr.* = Freshman; *So.* = Sophomore; *Jr.* = Junior; *Sr.* = Senior; *Sp.* = Special Student; *Gr.* = Graduate Student; *W.* = Women's College; *J. C. B. L.* = John Carter Brown Library.

Abercrombie, D. W., *Trustee Worcester Academy*,	Worcester, Mass.
Adams, E. A., *Fr.*	Hope 36
Adams, G. A., *Fr.*	University 13
Adams, H. E., *Fr.*	Maxcy 426
Adams, L. H., *So.*	Hope 28
Adams, R. J., *Fr.*	Caswell 28
Albee, K. F., *Jr.*	Brunonia 10
Aldrich, J. M., *Jr.*	101 Waterman St.
Algeo, Mrs. S. M., *Gr.*	394 Angell St.
Alger, J. H., *Sr.*	Brunonia 1
Allen, E. B., *So.*	University 58
Allen, R. D., *Jr.*	Hope 11
Allen, G. M., *W. Jr.* *50 Turner Ave.*,	Riverside
Allen, W. L., *Fr.*	Hope 24
Allinson, F. G., *Professor*	163 George St.
Allinson, Mrs. F. G., *Advisory Council, W.*	163 George St.
Anderson, J. A., *So.*	53 Hendrick St.
Anderson, E. A., *W. Fr.*	66 Benefit St.
Anderson, P. G. W., *Jr.*	Maxcy 317
Anderson, T. D., *Sec'y of Corporation* *379 State St.*,	Albany, N. Y.
Andrews, L. H., *W. So.*	63 Barnes St.
Andrews, H. B., *Fr.*	Caswell 5
Andrews, R. B., *Fr.*	Caswell 31
Angell, L. N., *W. Fr.*	58 Benevolent St.
Anthony, W. B., *Fr.*	12 Carter St.
Anthony, W. C., *Jr.*	University 33
Appleton, J. H., *Professor*	209 Angell St.
Appleton, P., *So.*	Slater 12
Archambault, C. F., *Fr.*	Arctic
Archie, J. C., *So.*	Brunonia 1
Archibald, R. C., *Instructor*	9 Charles Field St.
Arnold, E. B., *So.*	Hope 46

Arnold, J. O., *Women's College Physician*	101 Brown St.
Aronovici, C., *Gr.*	31 Chestnut St.
Aspinwall, W. M., *Fr.*	*633 Main St.*, Pawtucket
Atwater, R. M., *Trustee*	Chadds Ford, Pa.
Atwood, C. W., *Jr.*	100 Waterman St.
Austin, C. R., *Gr.*	122 Doyle Ave.
Ayer, T. P., *Sr.*	Caswell 19
Ayler, H. R., *Sr.*	University 55
Ayres, C. E., *Fr.*	Maxcy 434
Babcock, D. S., *Jr.*	4 Manning St.
Babcock, G. W., *Sr.*	University 41
Babcock, H. P., *Sr.*	4 Manning St.
Babington, V. E., *So.*	Hope 17
Bailey, W. W., *Professor Emeritus*	6 Cushing St.
Baker, C. E., *W. Sr.*	48 Pekin St.
Baker, M. W., Jr., *So.*	University 54
Bancroft, R. M., *W. Fr.*	114 Narragansett Ave.
Banfield, S. M., *Sp.*	Brunonia 13
Banigan, J., *Fr.*	468 Angell St.
Bannan, J. W., *Fr.*	313 Prairie Ave.
Barbour, T. S., *Trustee*	*Tremont Temple*, Boston, Mass.
Barclay, Miss J., *Gr.*	520 Hope St.
Barker, H. O., *Fr.*	Caswell 31
Barker, E. S., *Fr.*	Hope 2
Barr, S., *Fr.*	Maxcy 433
Barrett, G. H., *Jr.*	University 45
Barrett, H. L., *Sr.*	Slater 8
Barrows, F. C., Jr., *Fr.*	Caswell 11
Barry, C. A., *So.*	104 Chapin Ave.
Barry, D. S., *Sp.*	151 Morris Ave.
Barus, C., *Professor; Dean of Graduate Dept.*	30 Elmgrove Ave.
Barus, Mrs. C., *Advisory Council, W.*	30 Elmgrove Ave.
Barus, M., *Jr.*	54 College St.
Bassett, L. M., *W. Sr.*	Plymouth, Mass.
Bates, E. W., *Fr.*	University 52
Beattie, J. H., *So.*	University 53
Beattie, M. L., *W. Sr.*	156 Cypress St.
Bedell, I. M., *W. So.*	184 Meeting St.
Beebe, Miss J. E., *Stenographer, Physical Dept.*	47 George St.
Beeber, S. J., *Gr., Assistant*	16 Wesleyan Ave.
Berge, F. O., *Jr.*	14 Taber Ave.
Beliavsky, J., *So.*	22 James St.
Bell, H. N., *W. So.*	66 Benefit St.

Bell, K. S., *Fr.*		Maxcy 436
Benedict, G. W., *Associate Professor*		16 John St.
Bengert, E. P., *So.*		489 Hope St.
Bennett, A. A., *So.*		113 East Manning St.
Bennett, C. B., *Gr.*		113 East Manning St.
Bennett, H. C., *W. Fr.*		113 East Manning St.
Bennett, M. E., *W. Sp.*		113 East Manning St.
Bennett, R. K., *Sr.*		Hope 48
Berge, F. O., *Jr.*		14 Taber Ave.
Beytes, L. H., *Sr.*		University 41
Bichwit, W., *Sr.*		7 West Park St.
Bien, Z. S., *Sp.*		7 Barnes St.
Bingham, R. W., *So.*		Caswell 20
Bishop, C. A., *W. Fr.*	*129 Broad St.*,	Pawtucket
Bishop, M. C., *W. Fr.*	*36 Grove St.*,	No. Attleboro, Mass.
Bissell, R. W., *So.*		Slater 5
Blaine, A. M., *W. Sr.*, *Assistant Cataloguer*		450 Brook St.
Blake, Mrs. H. W., *Gr.*		87 Grove St.
Blake, R. P., *Fr.*		94 Angell St.
Blake, S., *Fr.*	*37 Grove St.*,	Lonsdale
Blanchard, A. H., *Associate Professor*		62 University Ave.
Blanchard, E. P., *Fr.*		127 Benefit St.
Blanchard, L. M., *W. Sr.*		188 Meeting St.
Bliss, A., *Fr.*		41 Hawes St.
Bliss, E. F., *So.*		Caswell 18
Bliss, H. B., *So.*		41 George St.
Bliss, J. E., *Jr.*		Caswell 8
Blodgett, C. A., *W. Sp.*	*71 Park Place*,	Pawtucket
Blodgett, G., *W. Jr.*		66 Benefit St.
Blomberg, C. H., *So.*		94 Angell St.
Blood, P. F., *So.*		8 De Foe Place
Bloom, B. E., *W. So.*		202 Lippitt St.
Boardman, E. H., *Fr.*		Hope 22
Boardman, E. M., *W. Jr.*		112 Ring St.
Boas, R. P., *Gr.*		4 Oak St.
Bogle, I. W., *Sr.*		University 57
Bonn, Miss M. H., *Gr.*		12 Spencer St.
Borland, A. P., *W. Fr.*		20 Nebraska St.
Borden-Smith, H. S., *Fr.*		106 George St.
Bosworth, E. C., *So.*		Foxboro, Mass.
Bosworth, C. W., *Sr.*		94 Angell St.
Bourne, D., *W. Jr.*		Pontiac
Bourne, Miss L. A., *Gr.*		100 Taber Ave.
Bourne, O. E., *Fr.*		Rumford

Bowne, C. B., *So.*		North Slater
Boyce, F. M., *Sr., Gr.*		University 45
Brady, W. A., *Gr.*		Narragansett Pier
Brant, Miss L. C., *Gr.*		30 No. Court St.
Brant, Miss R. E., *Gr.*		30 No. Court St.
Breckenridge, A. L., *So.*		Hope 30
Brennan, J. B., Jr., *So.*		University 16
Brett, A. L., *Jr.*		Brunonia 6
Brewster, G. W., *Fr.*		94 Angell St.
Briden, F. H., *Fr.*	*177 Cross St.*,	Central Falls
Briggs, C. W., Jr., *Sr.*		Caswell 3
Brightman, C. L., *Sr., Gr.*		University 45
[Bronson, W. C.], *Professor*		232 Brown St.
Bronson, P. E., *Fr.*		Caswell 23
Brooks, F. E., *Trustee*	*1324 North Nevada Ave.*,	Colorado Springs, Col.
Brooks, J. A., *Assistant Professor*		39 Benevolent St.
Brown, A. G., *W. Sr.*		26 Rhode Island Ave.
Brown, A. R., *W. Jr.*		66 Benefit St.
Brown, C. W., *Assistant Professor*		19 Diman Place
Brown, D. L., *Fr.*		North Slater
Brown, Miss G. E., *Secretary to Dean*		42 W. Friendship St.
Brown, H. P., *Jr.*		509 Park Ave.
Brown, J. W., *Fr.*		316 Eddy St.
Brown, L., *Trustee*	*16 Warren St.*,	Norwich, Ct.
Brown, Mrs. G. M., *W. Sp.*		66 Moore St.
Brown, W. S., *So.*		University 19
Browne, W. W., *Gr.*		94 Angell St.
Bruce, W. B., *Jr.*		Maxcy 431
Bruenner, A. F., *So.*		University 31
Bucher, J. E., *Associate Professor*		35 Humboldt Ave.
Buck, F. A., *So.*	*Box 471*,	Mansfield, Mass.
Buck, H. J., *W. Jr.*	*109 Woodbine St.*,	Auburn
Buckey, H. M., *W. Sr.*	*119 Cross St.*,	Central Falls
Bucklin, H. S., *Jr.*		Hope 23
Buddington, A. F., *Fr.*		Maxcy 427
Budlong, F. R., *Sr.*		54 College St.
Budlong, Miss J. V., *Gr.*		189 Governor St.
Buffington, Miss B. A., *Gr.*		463 Broadway
Buffum, W. P., Jr., *Sr.*		54 College St.
Bugbee, S. R., *Sr.*		41 George St.
Bumpus, H. C., *Fellow; Am. Mus. of Nat. History*		New York, N. Y.
Bumpus, H. C., *Fr.*		North Slater
Bunker, J. W. M., *Sr.*		94 Angell St.

Burbank, P., *Sr.*		65 College St.
Burge, S. D., *W. Fr.*	*184 Albert Ave.*,	Edgewood
Burgess, F., Jr., *Fr.*		Caswell 26
Burgess, G. S., *Fr.*		Slater 7
Burgess, W. R., *Fr.*		Hope 47
Burke, H. M., *So.*		University 50
Burlingame, E. A., *Supt. Grounds and Buildings*		359 Brook St.
Burnham, C. E., *Fr.*	*17 Nickerson St.*,	Pawtucket
Burnham, J. M., *Assistant Librarian*		63 Elmwood Ave.
Burnside, A. E., *W. Jr.*	*264 Prospect St.*,	Pawtucket
Burr, H. C., *Jr.*		Hope 10
Burrage, H. S., *Fellow*		Togus, Me.
Burroughs, L. F., *Fr.*	*93 Park Place*,	Pawtucket
Burroughs, R. C., *W. So.*	*93 Park Place*,	Pawtucket
Burton, A. I., *W. Sr.*	*1121 Main St.*,	Pawtucket
Bushée, A. H., *W. Sp.*		Woonsocket
Bushell, F. H., *W. Sp.*		617 Hope St.
Bushell, M. K., *W. Jr.*		617 Hope St.
Buss, R., *Sr.*		Hope 26
Butler, G. M., *W. Fr.*		Mansfield, Mass.
Butler, N. L., *W. Sr.*		312 Public St.
Butler, W. H., *Sr.*		Hope 23
Butterworth, C. F., *Sr.*		Slater 1
Buzzell, E. G., *Fr.*		North Slater
Cady, H. D., *Instructor*		Warren
Calder, C. T., *So.*		3 Benevolent St.
Caldwell, E. M., *W. Fr.*	*42 Walker St.*,	Pawtucket
Cameron, H. F., *Sr.*		41 George St.
Cameron, W. C., *Jr.*		70 Blaisdell St.
Campbell, A. L., *W. So.*		43 Moore St.
Campbell, E. M., *W. Sp.*		277 Friendship St.
Campbell, G. H., *W. So.*	*160 Warren Ave.*,	East Providence
Campbell, G. H., *Sr.*		Caswell 18
Canfield, R. H. M., *So.*		94 Angell St.
Cann, S. J., *Gr.*	*23 Walnut St.*,	East Providence
Carlborg, E. M. L., *W. So.*		124 Atlantic Ave.
Carley, E. K., *So.*		94 Angell St.
Carpenter, A. C., *W. Sr.*	*199 Greenville Ave.*,	Manton
Carpenter, E. S., *So.*		Lonsdale
Carpenter, G. W. G., *Sp.*		4 Manning St.
Carroll, G. W., *Jr.*		22 George St.
Carson, M. H., *Jr.*		University 4
Case, R., *Fr.*		4 Manning St.

Caswell, G. E., *Jr.*		41 George St.
Caswell, R. G., *Fr.*		Maxcy 436
Cate, B. H., *So.*		Hope 34
Catlin, M. F., *W. Fr.*		66 Benefit St.
Caton, E. F., *Jr.*	*70 Arnold Ave.*,	Edgewood
Cawley, C. J., *So.*		198 Juniper St.
Cawthorne, H. F., *So.*		Hope 30
Chace, A. B., *Trustee and Chancellor*		324 Angell St.
Chace, A. M., *Sr.*		University 34
Chace, H. R., Jr., *Fr.*		133 Brown St.
Chace, J., *Trustee*		Valley Falls
Chace, K. I., *Fr.*		Caswell 32
Chadwick, R. H., *Fr.*		Hope 32
Chafee, H. S., *Sr.*		54 College St.
Chamberlain, A. K., *W. So.*	*781 Broad St.*,	Central Falls
Chambers, R. F., *Sr.*		Slater 12
Champlin, M. D., *Sr.*		North Slater
Chandler, E. L., *Sr.*		100 Waterman St.
Chase, F. A., *Fr.*		273 Benefit St.
Chase, L. C., *So.*		263 Benefit St.
Chase, N. G., *Sr.*		100 Waterman St.
Chase, R. D., *So.*		University 27
Chesley, J. O., *So.*		Caswell 33
Christianson, A. O., *Fr.*		Maxcy 429
Christie, C. I., *So.*		65 College St.
Church, J., Jr., *Sr.*		University 43
Church, M. B., *W. Fr.*		292 Wayland Ave.
Clampitt, G., *W. So.*	*286 Washington St.*,	No. Attleboro, Mass.
Clark, A. C., *So.*		University 60
Clark, D. G., *Sr.*		Hope 9
Clark, Miss G. M., *Gr.*		44 Pitman St.
Clark, J. C., *So.*		University 28
Clark, L. F., *Jr.*		University 38
Clark, P. F., *Gr.*		167 Arlington Ave.
Clark, T., *Assistant Registrar*		152 Congdon St.
Clark, W. I., *Fr.*		Caswell 31
Clarke, B. F., *Professor Emeritus and Trustee*		89 Brown St.
Clarke, R. I., *Jr.*		41 George St.
Cleasby, C. S., *So.*		Hope 45
Clemence, S. R., *W. So.*	*245 Armington St.*,	Edgewood
Cloues, A. S., *Fr.*		Caswell 34
Clough, H. D., *Gr.*		University 38
Cobb, G. R., *Fr.*	*12 White St.*,	Pawtucket

Coffin, H. R., *So.*	Hope 24
Cohen, L., *Fr.*	189 Willard Ave.
Colas, A., *Sp.*	65 College St.
Colby, E., *Trustee*	*Llewellyn Park*, Orange, N. J.
Colby, G., *Trustee*	*7 Wall St.*, New York, N. Y.
Cole, Miss M. S., *Gr.*	54 Olive St.
Collins, A. R., *W. Sp.*	118 Broad St.
Collins, E. L., *Jr.*	54 College St.
Collins, F. C., *Fr.*	University 47
Collins, G. L., *Trustee*	223 Benefit St.
Collins, H. W., *Gr.*	Caswell 27
Collins, J. F., *Assistant Professor*	468 Hope St.
Collins, L. R., *So.*	University 47
Collins, M. G., *W. Fr.*	29 Forest St.
Collins, S. C., *Fr.*	Caswell 31
Colmetz, R. A., *Jr.*	118 Rutherglen Ave.
Colwell, R. C., *Fr.*	Hope 3
Comstock, A. B., *Jr.*	Caswell 20
Conant, G. M., *W. Fr.*	*119 Division St.*, Pawtucket
Conant, M. F., *So.*	Caswell 1
Conant, W. G., *Jr.*	Hope 17
Conklin, E. B., *Sr.*	Hope 43
Connell, W. M., *Sr.*	*7 Henry St.*, Edgewood
Connolly, J. G., *Sr.*	*42 Cleveland St.*, Pawtucket
Connor, H. R., *So.*	181 Angell St.
Conroy, W. M., *Sr.*	University 41
Conyers, H., *So.*	904 Cranston St.
Cook, A. F., *W. Jr.*	Georgiaville
Cook, H. F., *Sr.*	University 16
Cook, H. L., *Fr.*	Caswell 25
Cooke, L. E., *W. Sp.*	134 Congdon St.
Coolidge, R. A., *W. So.*	448 Hope St.
Copeland, H., *Jr.*	University 12
Corning, D. D., *Fr.*	Maxcy 434
Corp, A. E., *So.*	94 Angell St.
Corp, F. J., *W. Jr.*	24 Everett Ave.
Corrigan, E. J., *Fr.*	303 Benefit St.
Cosgrove, L. R., *W. Jr.*	87 Benefit St.
Cranston, S., *W. Sp.*	247 Bowen St.
Crapo, L. C., *W. So.*	32 Vernon St.
Crapon, Miss E. R., *Gr.*	41 Charles Field St.
Crawshaw, H. F., *W. Sr.*	121 Whittier Ave.
Creelman, A. D., *Jr.*	University 58

Cripps, E. T., *Fr.* 54 Sampson Ave.
Cristy, A. M., *Sr.* 102 Wayland Ave.
Crosby, T., *Assistant Professor* Brunonia 7
Cross, E. B., *Gr.* 265 Doyle Ave.
Crossley, F. A., *W. Jr.* 1412 Broad St.
Crossley, M. L., *Sr.* Hope 18
Crowell, A. C., *Associate Professor* 345 Hope St.
Crowell, M. C., *W. Sr.* *7 Miller St.*, Warren
Crumley, M. E., *W. Fr.* 129 Oxford St.
Cull, J. H., *Jr.* Hope 12
Cummings, L. R., *Fr.* Hope 31
Cummings, W. W., *Fr.* 469 Chalkstone Ave.
Curley, R. S., *Sr., Assistant* Maxcy 428
Currier, C. H., *Instructor* University 17
Curry, E. J., *Gr.* 150 Linwood Ave.
Curtis, H. R., *Sr.* Caswell 17
Curtis, P. C., *So.* University 57

Dahlgren, E. H., *W. So.* *6 Prospect St.*, Attleboro, Mass.
Daland, E. M., *Fr.* 94 Angell St.
Dale, N. C., *Gr., Assistant* 109 Williams St.
Damon, H. C., *Jr.* 41 George St.
Damon, L. T., *Professor* University 2
Dana, Miss A. S., *Gr.* 67 Medway St.
Dane, E. B., *So.* 94 Angell St.
Davis, C. A., *Fr.* North Scituate
Davis, N. F., *Professor* 159 Brown St.
Dawley, E. P., *So.* Caswell 20
Dealey, J. Q., *Professor* 872 Hope St.
Dealey, W. L., *Fr.* 872 Hope St.
Dean, J. D., *Sr.* Slater 3
Dean, M. E., *W. Jr.* 66 Benefit St.
Delabarre, E. B., *Professor* 9 Arlington Ave.
Delany, C. C., *W. Sr.* *32 Garden St.*, Pawtucket
Dennie, F. E., *Sr.* Slater 1
Dexter, R. C., *Fr.* Hope 7
Dexter, T. E., *Gr.* *46 Washington St.*, Central Falls
Diman, M., *W. Sr.* 194 Angell St.
Dinkins, W. H., *Fr.* 283 Thayer St.
Dishman, S. B., Jr., *So.* Brunonia 8 [Ave.
Dixon, J. P., Jr., *Sr.* 1034 Mineral Spring
Dobler, L. T., *W. Jr.* 263 Cypress St.
Dodge, W. E., *Fr.* 330 Knight St.
Dodge, W. P., *Sr.* 4 Manning St.

Domin, L. V., *Fr.*	Caswell 34
Donle, E. R., *So.*	94 Angell St.
Donovan, D. G., *Fr.*	Maxcy 322
Douglass, W. W., *Trustee*	107 Prospect St.
Dow, E. A., *So.*	University 18
Doyle, Miss S. E., *Advisory Council, W.*	119 Prospect St.
Draper, A. D., *Jr.*	University 10
Driscoll, J. F., *So.*	Hope 41
Drowne, F. O., *So.*	Brunonia 9
Drowne, H. B., *Instructor*	Brunonia 12
Drury, R. S., *Fr.*	Caswell 11
Duane, J. M., *Trustee*	*59 Wall St.*, New York City
Dunn, J. J., *Sp.*	*150 Granite St.*, Westerly
Dunn, T. L., *Fr.*	Maxcy 322
Dutton, C. J., *Sp.*	*13 Summer St.*, Westerly
Eastburn, A. C., *Fr.*	8 De Foe Place
Easton, H. E., *So.*	41 George St.
Eaton, E. M., *W. Sr.*	66 Benefit St.
Ede, H. R., *Sr.*	Brunonia 2
Edmundson, H. B., *Sr.*	Hope 42
Edwards, J., *Assistant, Ladd Observatory*	210 Doyle Ave.
Edwards, S. O., *Trustee*	181 Lloyd Ave.
Ehle, L. E., *So.*	Caswell 13
Eldredge, J. H., *So.*	Slater 4
Elliot, L. S., *Sr.*	41 George St.
Emerson, Miss J. F., *Gr.*	Barrington Centre
Elms, J. C., Jr., *Fr.*	Caswell 32
Emsley, M. J., *W. Fr.*	Pascoag
Emmons, W. J., *Fr.*	*482 Laurel Hill Ave.*, Arlington
Englander, H., *Gr., Lecturer*	181 Reynolds Ave.
English, J. M., *Trustee*	Newton Centre, Mass.
Ervin, J., Jr., *So.*	Hope 13
Everett, P. E., *Sr.*	58 College St.
Everett, W. G., *Professor*	116 Governor St.
Everson, E. W., *Sr.*	21 Hempstead St.
Farnsworth, A., *Jr.*	University 48
Farnsworth, J. P., Jr., *Jr.*	North Slater
Farnsworth, T. B., *Fr.*	173 Vermont Ave.
Farnum, Miss M., *Gr.*	112 Bridgham St.
Farnum, R. B., *Jr.*	132 Bridgham St.
Farwell, A. P., *Jr.*	32 Carleton St.
Farwell, H. C., *Fr.*	32 Carleton St.
Faunce, W. H. P., *President*	180 Hope St.

Ferguson, J. B., *Demonstrator*		369 Broad St.
Ferry, O. R., *Fr.*		Maxcy 316
Fenner, R. E., *Jr.*		20 Hudson St.
Field, A., *W. Sp.*		222 Medway St.
Field, R. F., *Sr.*, *Assistant*		25 Wilson St.
Fillmore, M. G., *Fr.*		Caswell 33
Finkelstein, G., *Jr.*		1 Lopez St.
Firtion, W. C., *Fr.*		62 College St.
Fitz, E. S., *So.*		Hope 45
Flemming, J. E., *Gr.*	*Auburn Theological Seminary*,	Auburn, N. Y.
Fletcher, E. G., *Fr.*		103 Parade St.
Fletcher, J. E., Jr., *So.*		Caswell 3
Fogg, M. M., *W. Fr.*		66 Benefit St.
Foggitt, W., *Assistant*		20 Camp St.
Follansbee, C. L., *Fr.*		University 43
Foote, J. A., *Sr.*		Brunonia 10
Forrist, J. H., *Jr.*		276 Washington Ave.
Foster, F. A., *W. Sr.*		87 Williams St.
Foster, L. S., *Fr.*		Caswell 35
Fowler, H. E., *Sr.*		University 26
Fowler, H. T., *Professor*		127 Lloyd Ave.
Fowler, Miss L. M., *Gr.*		20 Bridgham St.
Francis, H. B., *So.*		University 46
Francis, P. H., *Fr.*		385 Laurel Hill Ave.
Franklin, C. M., *Sp.*	*6 Saunders St.*,	Pawtucket
Frazer, C. R., *Gr.*	*Shaw University*,	Raleigh, N. C.
Freeman, W. B., *Jr.*		Caswell 19
Frohock, E. P., *Jr.*		University 13
Frost, H. M., *Jr.*		Caswell 24
Frost, M. G., *W. Sr.*		301 Knight St.
Fuller, R. J., *Gr.*		No. Attleboro, Mass.
Furlong, M. C., *W. So.*		125 Governor St.
Gager, W. M., *Sr.*		Rogers Hall
Gallagher, M. H., *So.*		121 Angell St.
Gammell, R. I., *Trustee*		50 South Main St.
Gannon, W. E., *Jr.*		65 College St.
Gardner, H. B., *Professor*		54 Stimson Ave.
Gardner, L., *So.*		Caswell 5
Gardner, R. N., *So.*		Caswell 5
Gaskill, F. A., *Fellow*	*116 Lincoln St.*,	Worcester, Mass.
Gerber, S., *W. So.*		66 Benefit St.
Ghosh, J., *Sp.*		513 Hope St.
Gibbs, Miss L. R., *Cataloguer*		47 George St.

Gifford, C. F., *Fr.*		Hope 28
Gifford, G. H., *So.*		Caswell 12
Gifford, M. A., *W. Jr.*		Moses Brown School
Gilbert, J. J., *Fr.*		University 16
Giles, W. C., *So.*		65 College St.
Gilfoil, A. J., *Fr.*		University 50
Gillespie, L. J., *Gr.*		University 43
Gindele, H. E., *W. Jr.*	*80 Spring St.*,	Pawtucket
Gleason, F. R., *So.*		Caswell 12
Goddard, R. H. I., *Fellow*		50 South Main St.
Goff, D., *So.*		Caswell 1
Goodspeed, T. H., *Sr.*		54 College St.
Goodwin, C. L., *Gr.*		Lyndonville, Vt.
Goodwin, W. E., *Jr.*		Maxcy 314
Gordan, W. F., Jr., *Fr.*		Caswell 14
Gorham, F. P., *Associate Professor*		151 Meeting St.
Gorman, A., *Sr.*		82 Broad St.
Gorman, J. L., *Jr.*		65 College St.
Gormly, M., Jr., *So.*		Maxcy 314
Gould, R. K., *Jr.*		University 45
Grant, M. L., *Fr.*		176 Prairie Ave.
Gray, E. L., *So.*		Moses Brown School
Green, T. F., *Trustee*		15 Westminster St.
Greene, A., *Fr.*		Hope 39
Greenebaum, E. N., *Sp.*		Caswell 2
Greenwood, L. C., *Fr.*		Maxcy 318
Greene, E. A., *Sr.*		100 Waterman St.
Greene, J. F., *Assistant Professor*		47 George St.
Greene, W. W., *Jr.*		Hope 13
Gregory, Miss E. H., *Gr.*		29 Ann St.
Gregson, L. H., *Fr.*		Maxcy 318
Gretsch, A. H., *Fr.*		University 54
Grose, H. B., Jr., *Instructor*		Caswell 30
Guild, F. T., *Registrar and Secretary of Faculty*		9 Oriole Ave.
Guile, M. E., *W. Sp.*		31 Burnett St.
Guillemette, J. D., *Fr.*		Hope 19
Gyllenberg, I. A., *W. Sr.*		78 Mitchell St.
Hager, E. R., *Sr.*	*700 Park Ave.*,	Auburn
Hague, E. M., *W. Sr.*		66 Benefit St.
Hall, J. A., *Jr.*		Hope 19
Hall, W. B., *Sp.*	*High Service Ave.*,	No. Providence
Hall, M. W., *W. Sr.*	*High Service Ave.*,	No. Providence
Ham, A. M., *Jr.*		65 College St.

Hampton, A. J., *So.*	*183 Sayles Ave.*,	Pawtucket
Handy, E. R., *Fr.*		Caswell 25
Hardy, C. S., *Sr.*		Caswell 15
Harkness, A., *Sr.*		54 College St.
Harkness, A. G., *Professor*		7 Cooke St.
Harkness, S. B., *Instructor*		Caswell 30
Harrigan, D. J., *Sr.*		University 36
Harrington, W. G., *So.*		64 Providence St.
Harris, W. H., *Sr.*		Maxcy 319
Hartigan, J. P., *Jr.*		University 50
Haskins, H. H., *So.*		University 46
Hastings, W. T., *Instructor*		11½ John St.
Hastings, Mrs. W. T., *Advisory Council, W.*		11½ John St.
Hatch, M. A., *W. So.*		Riverside
Hawes, I., *W. Fr.*		Riverside
Hawes, R. P., *Fr.*		Riverside
Hazard, R. G., *Fellow*		Peace Dale
Hefner, C. E., *W. Jr.*		125 Governor St.
Henderson, G. H., *Sr.*		Hope 19
Henderson, W. B., *Jr.*		University 18
Hénin, B. L. A., *Gr., Instructor*		University 21
Hennessy, J. C. A., *Jr.*		4 Manning St.
Hennessy, H., *Fr.*		4 Manning St.
Hewitt, R. W., *Fr.*		University 59
Hewitt, S., *W. So.*	*78 Peck St.*,	Attleboro, Mass.
Heydon, W. D., *So.*		Slater 6
Hibbs, H. H., *Jr.*		Maxcy 315
Higgins, E. D., *Sp.*		Riverside
High, H. G., *Sr.*		University 46
High, J. F., *So.*		Hope 20
Hildreth, A. F., *W. So.*		97 East Manning St.
Hill, G. R., *Sp.*		Caswell 28
Hill, J. E., *Professor*		86 Taber Ave.
Hill, Miss S. E., *Secretary to Registrar*		82 Olney St.
Hills, A. W., *Jr.*		65 College St.
Hinckley, J. E., *So.*		Caswell 19
Hinton, M., *W. Jr.*		254 Washington St.
Hollen, E. J., *Sr.*		Hope 22
Holman, A. D., *W. So.*		66 Benefit St.
Holman, S. M., Jr., *So.*		Hope 34
Holt, Miss H. M., *Gr.*	*146 Sheldon St.*,	Elmwood Station
Holt, N. E., *Jr.*		North Slater
Hood, P. H., *Fr.*		Hope 40

Horr, G. E., *Fellow*		Newton Centre, Mass.
Horton, E. M., *Jr.*		Hope 4
Horton, E. S., *Jr.*		100 Waterman St.
Howard, V., *Fr.*		263 Charles St.
Howarth, J. M., *So.*		306 Benefit St.
Howe, H. R., *So.*		41 George St.
Howe, P. D., *So.*		4 Manning St.
Howland, H., *Fr.*		247 Pine St.
Howland, P. B., *Jr.*		North Slater
Hoyt, C., *Trustee*	*36 Wall St.*,	New York, N. Y.
Hubbard, A., *W. Fr.*		522 Manton Ave.
Hubbard, H. D., *Fr.*		University 22
Hubbard, H. G., *So.*		University 22
Hughes, C. E., *Trustee*	*Executive Mansion*,	Albany, N. Y.
Hughes, C. E., Jr., *Sr.*		100 Waterman St.
Hughes, E. W., *W. Fr.*		66 Benefit St.
Huling, R. G., *Trustee*	*10 Hurlburt St.*,	Cambridge, Mass.
Hull, C. M., *Fr.*		41 George St.
Humphrey, H. V., *Fr.*		Hope 6
Humphrey, J. B., *Fr.*		Hope 6
[Hunkins, C. H.], *Instructor*		University 1
Hunt, J. H., *W. Sp.*		165 Waterman St.
Hunt, M. B., *Sr., Gr.*		100 Waterman St.
Huntington, H. B., *Assistant Professor*		153 Power St.
Huntoon, C. M., *W. Sp.*		40 Humboldt Ave.
Hurlin, R. G., *Fr.*		Hope 7
Hutchins, R. E., *Jr.*		Hope 14
Huxford, G. T., *Sr.*		Hope 26
Ide, Miss S. A., *Gr.*		401 Benefit St.
Ingalls, W. C., Jr., *Sr., Secretary Y. M. C. A.*		Caswell 34
Inomata, S., *Fr.*		51 Longmont St.
Jackson, D., *Sp.*		Slater 5
Jackson, E. E., *So.*		169 Princeton Ave.
Jackson, H. K., *Sr.*		Slater 4
Jacobs, W. B., *Professor*		310 Olney St.
Jarvis, S. T., *So.*		Brunonia 8
Jeffris, M. R., *Jr.*		4 Manning St.
Jencks, F. M., *So.*		West Barrington
Jencks, W. L., *Fr.*		Hope 9
Jennings, A. J., *Trustee*	*Granite Block*,	Fall River, Mass.
Johnson, A. B., *Associate Professor*	*168 Walnut St.*,	East Providence
Johnson, C. R., *Sr.*		Caswell 17
Johnson, Miss M. K., *Gr.*		146 Magnolia St.

Johnson, W. C., *Jr.* 100 Waterman St.
Johnston, C. S., *So.* Caswell 36
Jonas, A., *W. Sr.* 66 Benefit St.
[Jonas, J. B. E.], *Assistant Professor* 7 Barnes St.
Jones, G. H., *So.* Maxcy 429
Jones, H. P., *Fr.* 94 Angell St.
Joslin, C. F., *So.* 65 College St.
Josselyn, L. W., *Sr.*, *Second Assistant Librarian* University 19
Jubitz, A., *Fr.* Maxcy 425
Judson, E., *Fellow* *53 Washington Sq., South*, New York, N. Y.

Kalajian, A. A. N., *Fr.* Maxcy 316
Kalberg, S. M., *Jr.* University 27
Kaufman, J. S., *Sp.* Caswell 2
Keen, W. W., *Fellow* *1729 Chestnut St.*, Philadelphia, Pa.
Keenan, B. A., *Sr.*, *Gr.* *109 Cottage St.*, Pawtucket
Keenan, J. B., *Jr.* *109 Cottage St.*, Pawtucket
Keily, J. V., *So.* 53 Cypress St.
Kellen, W. V., *Trustee* *202 Commonwealth Ave.*, Boston, Mass.
Kelley, G. H., *Jr.* 32 Custom House St.
Kelley, H. M., *Assistant* Brunonia 4
Kelley, W. E., *So.* University 50
Kemp, S. M., *W. Fr.* 9 Summit Ave.
Kendall, G. V., *Fr.* Caswell 29
Kendrick, L. C., *Fr.* Hope 26
Kenerson, W. H., *Associate Professor* 100 Morris Ave.
Kennedy, W. A., *Instructor* 31 Forest St.
Kenney, H. W., *Fr.* *415 Webster Ave.*, Arlington
Kent, E. B., *So.* 41 George St.
Kent, W., *Jr.* 54 College St.
Kenyon, A. E., *Fr.* University 22
Keppel, C. J., *Fr.* Hope 37
Keresey, F. X., *Fr.* University 12
Keyes, F. G., *Gr.*, *Instructor* Hope 33
Kiernan, A., *So.* 1 Falcon St.
Kilcup, E. I., *Fr.* 70 Chester Ave.
Kindelan, J. B., *So.* 65 College St.
King, C. G., Jr., *Trustee* *774 Fairmont St.*, Cleveland, Ohio
King, C. M., *So.* Hope 30
King, H. M., *Trustee* 8 Cushing St.
King, Miss L. S., *Dean, W.; Assistant Professor* 8 Cushing St.
Kingsbury, Miss M. G., *Gr.* 79 Taber Ave.
Kinion, A. J., *So.* *146 High St.*, Valley Falls
Kirk, W., *Assistant Professor* 9 John St.

Kirley, A. J., *Sr.*		100 Waterman St.
Kivlin, J. F., *Fr.*		University 10
Klebes, C. R., *Fr.*		Maxcy 313
Knight, Miss A. S., *Advisory Council, W.*		366 Broadway
Knight, I. W., *So.*		University 18
Knights, E. L., *W. So.*	*52 Middle St.*,	Riverside
Kohlberg, B. F., *W. Fr.*		167 Wadsworth St.
Kohler, H. L., *Sp.*		65 College St.
Koopman, H. L., *Librarian*		57 East Manning St.
Krause, G. F., *Gr.*	*323 Chestnut St.*,	Lebanon, Pa.
Krause, M., *Jr.*		University 28
Kreutzer, L. B., *Fr.*		123 Chalkstone Ave.
Ladner, A. C., *Fr.*		Maxcy 315
Lake, H. B., *Sr.*		Hope 4
Lakey, F. E., *Gr.*	*26 Royal St.*,	Allston, Mass.
L'Amoureux, H. D., *Jr.*		University 13
LaMeslée, A. M., *Instructor*		181 Angell St.
Lane, H. B., *Sr.*		University 55
Langdon, C., *Professor*		86 Upton Ave.
Langdon, G. W., Jr., *Fr.*		62 College St.
Lapham, J. R., *Sr.*		Hope 42
Lapham, O., *Trustee*		183 Waterman St.
Laraway, I. L., *W. Sr.*		228 Webster Ave.
Larkin, D. F., *Fr.*		Brunonia 1
Larkin, J. C., *So.*		Hope 32
Larrabee, L. L., *Sr.*		100 Waterman St.
Lasker, J., *Sr.*		537 No. Main St.
Latham, B. F., *Sr.*		Hope 9
Leach, A. E., *Sr.*		Brunonia 2
Learned, W. S., *Gr.*		Moses Brown School
Lederer, S. M., *So.*		Hope 20
Lee, E. D., *W. Sr.*		57 Parkis Ave.
Leith, R. W., *Fr.*		Caswell 7
Leland, C. L., *So.*		224 Gano St.
Lennes, N. J., *Instructor*		125 Lloyd Ave.
Lester, M. B., *W. So.*		125 Governor St.
Levere, G. V. G., *W. So.*	*363 High St.*,	Bristol
Lincoln, W. E., *Trustee*	*815 Amberson Ave.*,	Pittsburgh, Pa.
Lindblom, E. M., *W. Fr.*		13 Gladstone St.
Littlefield, I., *Sr.*		102 Bowen St.
Livingstone, H. D., *Fr.*		65 College St.
Loftus, R. T., *W. Fr.*		56 Stewart St.
Longley, C. E., *W. Fr.*		184 Meeting St.

Luther, C. F., *Sp.*	51 Mulberry St.
Luther, W. B., *So.*	Hope 35
Lyall, H. W., *Gr.*	100 Waterman St.
Lynn, W. H., *Jr.*	Slater 1
Lyon, M. C., *W. Sr.*	169 Congdon St.
McArdle, M. H., *W. Sp.*	*103 Pleasant St.*, Attleboro, Mass.
McAuliffe, Miss R. G., *Gr.*	184 Elmgrove Ave.
McCarthy, E. H., *Sr.*	University 16
McCausland, E. E., *W. Sr.*	14 East Manning St.
McCormick, J. H., *Fr.*	Maxcy 322
McCoy, L. A., *Sr.*	*Clyde St.*, Pawtucket
McCoy, O. R., *Sr.*	Maxcy 430
McDaniels, G. D., *Jr.*	Maxcy 319
MacDonald, W., *Professor*	450 Brook St.
Macdougall, H. C., *Lecturer*	*29 Dover St.*, Wellesley, Mass.
McGehearty, J. F. J., *Fr.*	159 Howell St.
McGreen, T. E., *Fr.*	Maxcy 316
MacGuire, J. T. C., *Sp.*	Caswell 9
McGurty, G. H., *Sp.*	University 50
McIntosh, H. S., *Jr.*	247 Doyle Ave.
McKay, J. R., *So.*	Caswell 36 [Ave.
Mackie, M. R., *W. So.*	43 Woonasquatucket
MacLaughlin, J. F., *Fr.*	26 Amity St.
McLean, D., *Sp.*	49 George St.
McMahon, M. C., *W. So.*	*18 Englewood Ave.*, Pawtucket
MacMillan, H. G., *Fr.*	Maxcy 435
MacMinn, G. R., *Instructor*	55 Waterman St.
McNerney, L., *W. Sr.*	*206 Park St.*, Attleboro, Mass.
McPhee, P. D., *So.*	University 21
Madison, F. S., *Fr.*	East Greenwich
Magoon, E. W., *W. So.*	65 Messer St.
Mahony, D. R., *Fr.*	Maxcy 314
Maile, A. S., *W. Jr.*	*119 Massasoit Ave.*, Edgewood
Maker, S., *Fr.*	40 Gay St.
Malloy, C. A., *Fr.*	Maxcy 321
Manatt, J. I., *Professor*	59 Charles Field St.
Manchester, C. B., *W. Fr.*	429 Friendship St.
Manchester, E. N., *Reference Librarian; Assistant to Keeper of Graduate Records*	66 Meeting St.
Mangan, F. A., *Fr.*	*Turner St.*, Attleboro, Mass.
Manning, H. P., *Associate Professor*	258 Medway St.
Mansur, F. L., *Jr.*	Brunonia 2
Marble, G. M., *W. Sr.*	*21 Holden St.*, Attleboro, Mass.

Marble, W. H., *Fr.*		Slater 2
Markensohn, M., *Sp.*		127 Orms St.
Marsh, H. G., *Fr.*		University 27
Marston, E. L., *Trustee*	*24 Broad St.*,	New York, N. Y.
Martel, R. R., *Fr.*		240 East St.
Martin, Miss A. R., *Gr.*		Warren
Marvel, F. W., *Professor*		281 Olney St.
Maryott, A. J., *Gr.*		Valley Falls
Mason, E. H., Jr., *Jr.*		54 College St.
Mason, E. W., *Trustee*		149 Waterman St.
Mason, M., *W. Sp.*		46 Arch St.
Matteson, G. A., *University Physician*		276 Benefit St.
Mattuck, J. A., *Gr.*		295 Potter Ave.
Maxson, C. C., *Fr.*		65 College St.
Mayer, E. B., *Sr.*		Slater 4
Mayer, J. C., *So.*		Maxcy 323
Mayhew, J. W., *Sr.*		4 Manning St.
Mayo, B. L., *W. Sr.*		313 Hope St.
Mead, A. D., *Professor*		283 Wayland Ave.
Meader, L. H., Jr., *Sr.*		Hope 23
Meckel, R. J. Y., *So.*		Hope 44
Meiklejohn, A., *Dean of the University; Professor*		30 Cushing St.
Meiklejohn, J., *W. Sp.*		66 Benefit St.
Mellor, L. L., *Fr.*		Maxcy 432
Mercer, K., *Jr.*		54 College St.
Meredith, M. M., *Jr.*		Hope 4
Metcalf, S. O., *Trustee*		36 Exchange Place
Mielatz, S. W., *W. So.*		125 Governor St.
Miles, F. E., *Fr.*		Slater 15
Miller, B. D., *Jr.*		Hope 25
Miller, C. W., *Fr.*	*63 Potter St.*,	Pawtucket
Miller, E. H., *Fr.*		University 34
Miller, R. H., *Gr.*		28 George St.
Miller, W. D., *Sr.*		4 Manning St.
Misch, W. P., *Fr.*		Maxcy 318
Mitchell, S. L., *Fr.*		57 East Manning St.
Mitchell, S. C., *Lecturer*		48 Lloyd Ave.
Mitchell, R. E., *Sr.*	*23 Wheeler Ave.*,	Edgewood
Mitchell, P. H., *Instructor*		157 Williams St.
Mitchell, R. M., *Instructor*		164 Wayland Ave.
Mitchell, W. E. B., *Sr.*		Brunonia 2
Mitchell, W. P., *Sr.*		Hope 15
Moffett, E. E., *Sr.*		Saylesville

Moffitt, J. B., *W. So.*	56 East Manning St.
Monroe, J. I., *W. Fr.*	107 Davis St.
Montz, J. M., *So.*	University 19
Moody, C. R., *Gr.*	Maxcy 430
Moore, G. D., *Fr.*	Hope 16
Morgan, M. J., *W. Sr.*	184 Howell St.
Morris, E. M., *Jr.*	University 31
Morrisey, J. H., Jr., *Jr.*	University 16
Morrison, E., *W. Jr.*	319 Broad St.
Morrison, W. S., *So.*	Hope 41
Morse, A. S., *Assistant Professor*	North Scituate
Morse, F. R., *Fr.*	Brunonia 10
Morton, C. M., *W. Jr.*	135 Superior St.
Mott, M. L., *W. So.*	21 Portland St.
Mudge, C. S., *So.*	32 Mt. Vernon St.
Muir, A. W., *Jr.*	100 Waterman St.
Muir, H. E., *So.*	Hope 38
Muir, W. E., *Sp.*	University 44
Mulcahy, F. L., *So.*	University 50
Mumford, N. V. S., *Fr.*	Slater 7
Munro, D. G., *Fr.*	Slater 20
Munro, W. H., *Professor*	115 Butler Ave.
Munson, R. L., *Jr.*	Hope 48
Murnan, G. F., *So.*	Hope 2
Murphy, R. C., *So.*	R. I. Hall
Nash, K. L., *Fr.*	University 51
Nash, W. R., *Jr.*	University 27
Nathanson, S., *Fr.*	Maxcy 316
Neef, F. J. A., *Instructor*	303 Benefit St.
Nelson, I. D., *W. So.*	184 Meeting St.
Nelson, W. C., *Fr.*	Hope 40
Nelson, W. J., *Gr., Secretary Y. M. C. A.*	University 48
Neves, J. S., *So.*	115 Arnold St.
Newell, A. F., *Fr.*	Hope 8
Newfield, L. A., *So.*	Caswell 8
Nichols, I. M., *W. Fr.*	557 Cranston St.
Nichols, M. B., *W. Sr.*	29 Portland St.
Nicholson, H. S., *W. So.*	*8 Stuart St.*, Pawtucket
Nicholson, N. B., *W. Jr.*	24 Camp St.
Nolan, C. A., *So.*	158 Charles St.
Norton, W. C., *Sr.*	161 Fountain St.
Nourse, C. L., *Sr.*	Caswell 15
Noyes, E. H., *Fr.*	East Greenwich

Nulty, H. F., *W. So.*	*11 Harris Ave.*,	Woonsocket
Nuttall, H., *Sr.*		University 40
Oakes, F. B., *Fr.*	*489 East Ave.*,	Pawtucket
Oakes, W. C., *Jr.*		Hope 5
Oates, J. H., *Fr.*		107 Beacon Ave.
Obear, G. B., *Gr.*		303 Benefit St.
O'Brien, M. L., *W. Sr.*	*Mulberry St.*,	Warren
O'Connor, F. D., *Fr.*		Maxcy 324
O'Connor, A. J., *Jr.*		University 16
O'Connor, E. E., *W. Sp.*		180 Bridgham St.
O'Donnell, F. J., *Jr.*		University 43
O'Hara, J. L., *Sp.*		31 Corinth St.
Oldfield, H. L., *Jr.*		Hope 45
O'Neil, H. B., *Jr.*		Maxcy 428
O'Neil, J. T., *So.*		University 36
Orcutt, D. B., *Fr.*		Slater 1
Ormes, H. A., *So.*		Hope 11
Oslin, J. E., *Jr.*		University 4
Paddock, S. D., *Jr.*		Hope 33
Pahline, O. C., *Fr.*	*172 Walnut St.*,	East Providence
Paine, Mrs. H. W., *Instructor, W.*		1 Congdon St.
Palmer, A., *So.*		University 30
Palmer, A. deF., *Associate Professor*		71 Elmgrove Ave.
Palmer, H. R., *Gr.*		Journal Office
Palmer, J. H., *Gr.*	*1570 Lonsdale Ave.*,	Lonsdale
Palmer, R. M., *Jr.*		University 30
Pantaenius, H. A., *So.*		University 44
Parker, C. H., *Fr.*		University 19
Parker, E. S., *Fr.*		Caswell 34
Parks, S. R., *So.*		Hope 5
Partington, W. H., *So.*		Hope 5
Patterson, I. W., *Sr.*		94 Angell St.
Paul, T. L., *Sr.*		Hope 21
Payson, B. A., *W. So.*		66 Benefit St.
Peck, W. T., *Trustee*		48 Princeton Ave.
Peckham, E. W., *Gr.*		59 Durfee St.
Peede, T. R., *Gr.*	*112 Clay St.*,	Central Falls
Peirce, Miss K. U., *Gr.*		125 East Manning St.
Peirce, W. T., *Sp.*		341 Thayer St.
Pendleton, W., *Fr.*		Caswell 21
Perkins, E. P., *Fr.*		Hope 10
Perkins, J., *Demonstrator*		106 Waterman St.
Perry, B. F., *So.*		Hope 21

Perry, F. C., *Fr.*	University 25
Perry, C. I., *W. So.*	37 Somerset St.
Peterson, A. N., *Jr.*	55 Gordon Ave.
Pettengill, I. W., *So.*	Hope 12
Phetteplace, T. M., *Assistant Professor*	1612 Broad St.
Phillips, W. L., *Fr.*	University 22
Pickles, A., *W. Fr.*	56 Dartmouth Ave.
Pierce, A. C., *Fr.*	46 North Court St.
Pierce, G. L., Jr., *Jr.*	Caswell 18
Pilling, L. G., *So.*	Hope 27
Pingree, M. H., *Fr.*	Maxcy 435
Pinkham, M. O., *Sp.*	Brunonia 10
Poland, A. H., *Sr.*	54 College St.
Poland, W. C., *Professor*	53 Lloyd Ave.
Pollitt, F. W., *Fr.*	Hope 3
Pope, A. U., *Instructor*	157 Williams St.
Porter, H. K., *Fellow*	Pittsburgh, Pa.
Post, C. A., *Jr.*	Slater 5
Post, F. W., *Fr.*	University 25
Potter, A. K., *Associate Professor; Keeper of Graduate Records*	220 Waterman St.
Potter, Miss A. M., *Gr.*	145 Chester Ave.
Potter, W. C., *Jr.*	Hope 22
Presbrey, Miss A. E., *Gr.*	51 Niagara St.
Prescott, J. H., *Jr.*	Hope 46
Price, J., *Sr.*	Hope 21
Purdie, D. J., *So.*	Maxcy 314
Purdy, M. M., *Fr.*	Hope 31
Purvis, W. B., *Fr.*	151 South Angell St.
Pyle, S. D., Jr., *Jr.*	100 Waterman St.
Quigley, T. H., *So.*	Maxcy 321
Radeke, Mrs. G., *Advisory Council, W.*	92 Prospect St.
Raia, J. E., *So.*	272 Broadway
Randall, O. A., *W. Fr.*	556 Cranston St.
Randall, O. E., *Professor*	100 Alumni Ave.
Raquet, C. R., *Jr.*	54 College St.
Rausch, F. M., *W. Jr.*	14 Central St.
Rawlings, F. G., *Fr.*	635 Chalkstone Ave.
Raybold, H. L., *W. Jr.*	26 Lillian Ave.
Raymond, W. P., *Sr.*	Slater 1
Read, N. W., *W. So.*	*48 Carver St.*, Pawtucket
Reid, D. A., *So.*	University 31
Reckling, R. W., *Jr.*	Maxcy 320

Regnier, A. E., *Sp.*	Brunonia 3
Repko, G. A., *Fr.*	25 George St.
Repko, S. J., *Fr.*	25 George St.
Ricci, J. V., *Fr.*	639 Charles St.
Richards, C., *Jr.*	29 Francis St.
Richards, C. K., *So.*	Hope 2
Richards, S. H., *Fr.*	100 Waterman St.
Richards, T. M., *Jr.*	94 Angell St.
Richards, M. A., *W. Jr.*	*34 Peck St.*, Attleboro, Mass.
Richardson, D. V., *Sp.*	Caswell 18
Richardson, O. P., Jr., *Sp.*	Caswell 16
[Richardson, R. G. D.], *Assistant Professor*	39 Benevolent St.
Richmond, L., *Sr.*	32 George St.
Ricker, M. S., *So.*	Caswell 10
Riley, E. F., *W. Sr.*	69 Barnes Street
Riley, R. S., *W. Fr.*	*32 Summit St.*, Central Falls
Roalf, T. H., *So.*	194 Broad St.
Robbins, H. W., *Gr.*, *Assistant*	Caswell 27
Robbins, L. F., *Sp.*	76 Benefit St.
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Robinson, J. F., *W. So.*	38 Congdon St.
Robinson, R. S., *So.*	41 George St.
Rockwood, H. W., *Fr.*	Hope 8
Rodey, P. C., *Fr.*	Slater 8
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Root, W., *Fr.*	606 Public St.
Roper, F. E., *So.*	Maxcy 321
Rose, E. M., *Fr.*	82 Sterling Ave.
Rosen, M., *Fr.*	*27 Washington St.*, Taunton, Mass.
Ross, W. C., *Sr.*	10 Hopkins St.
Ross, W. N., *Gr.*	14 Rhode Island Ave.
Ross, Miss S. G., *Head Slater Memorial Homestead*	66 Benefit St.
Round, G. A., *Jr.*	41 George St.
Round, L. A., *Jr.*	Hope 12
Rowe, I. S., *Jr.*	Brunonia 9
Ruger, A. C., *Fr.*	7 Aplin Court
Ryther, C. E., *W. Fr.*	*Dexter St.*, Pawtucket
Saacke, J. A., *So.*	235 Waterman St.
Sackett, J. T., *W. Sr.*	37 Arlington Ave.

Sadofsky, A. N., *So.*	20 Bowen St.
Salisbury, H. P., *Fr.*	20 Academy Ave.
Sampson, M. M., *W. Sr.*	125 Governor St.
Sanders, A. M., *W. Sr.*	125 Governor St.
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Scally, R. A., *Jr.*	Caswell 22
Schmidt, F. C., *Fr.*	25 George St.
Scholze, W. F., Jr., *Fr.*	Hope 22
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Semonoff, L., *Sp.*	21 Robinson St.
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Sharpe, H. D., *Trustee*	130 Angell St.
Shaw, A. E., *Sr.*	94 Angell St.
Shaw, R. G., *So.*	17 Arlington Ave.
Shay, H. W., *Sr.*	University 16
Shay, P. H., *Sp.*	Maxcy 322
Sheldon, I. R., *Jr.*	Hope 46
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Sherman, W. A., *So.*	Hope 45
Sherman, W. C., *Gr.*	297 Highland Ave.
Sherwood, G. H., *Gr.*	*Fifth Ave.*, New Rochelle, N. Y.
Sherwood, H. M., *Sr.*	94 Angell St.
Shields, W. T., *Jr.*	158 Douglas Ave.
Shippee, L. B., *Gr.*	38 Congdon St.
Shorey, B. M., *W. Sr.*	68 Lloyd Ave.
Silver, E. O., *Trustee*	*85 Fifth Ave.*, New York, N. Y.
Simpson, J. C., *Jr.*	47 Camp St.
Singsen, A. G., *Fr.*	12 Tobey St.
Singsen, E. L., *Fr.*	12 Tobey St.
Sisson, C. P., *So.*	54 College St.
Sisson, R. E., *So.*	54 College St.
Skelding, S. M., *So.*	Slater 12

Skillings, R. F., *So.*	Caswell 18
Slade, A. A., *Fr.*	University 26
Slade, A. L., *Fr.*	298 Broadway
[Slocum, F.,] *Assistant Professor*	124 Camp St.
Smalley, J., Jr., *Jr.*	Caswell 24
Smiley, A. K., *Trustee*	Mohonk Lake, N. Y.
Smiley, H. E., *Fr.*	660 Public St.
Smith, A. F., *Fr.*	University 10
Smith, B., *Sr.*	Hope 23
Smith, B. G., *So.*	Caswell 31
Smith, D. W., *Gr., Assistant*	Caswell 27
Smith, I. R., *Fr.*	University 26
Smith, L. E., *Fr.*	University 40
Smith, Miss E. C., *Gr.*	*625 East Ave.*, Pawtucket
Smith, E. R., *Sr.*	Hope 16
Smith, Mrs. E. R., *W. Sp.*	*772 Park Ave.*, Auburn
Smith, H. B., *Sr.*	University 41
Smith, H. F., Jr., *Sr.*	54 College St.
Smith, W. H., *So.*	Hope 7
Snell, C. B., *Fr.*	Caswell 13
Snyder, M. F., *So.*	Hope 15
Solether, R. B., *Fr.*	41 George St.
Southwick, F. B., *W. Fr.*	*58 Makin St.*, Pawtucket
Spaulding, C. W., *Fr.*	6 De Foe Place
Spencer, G. H., *Fr.*	East Greenwich
Spicer, E. S., *Jr.*	North Slater
Spicer, L. B., *Fr.*	Caswell 6
Sprackling, W. E., *Fr.*	Hope 36
Sprague, W., *Trustee*	Narragansett Pier
Spratt, C. F., *W. Fr.*	66 Benefit St.
Staff, A. E., *So.*	University 51
Stanhope, C. A., *W. So.*	125 Governor St.
Stanley, H. W., *Fr.*	Brunonia 13
Stanton, Miss E. B., *Registrar, W.*	Bristol
Stearns, H. B., *Sr.*	Hope 14
Steere, A. D., *W. Jr.*	66 Benefit St.
Steere, Miss R. P., *Cataloguer J. C. B. L.*	84 Waterman St.
Sterling, A. H., *So.*	Hope 18
Stevens, Miss M. W., *Gr.*	635 Public St.
Stevens, M. P., *W. Fr.*	129 Governor St.
Stillwell, M. B., *W. Sr., Assistant J. C. B. L.*	87 Benefit St.
Stiness, J. H., *Fellow*	210 Governor St.
Stitt, H. J. B., *Sr.*	Caswell 36

Stone, D. L., *Sr.*	Hope 24
Stone, M. M., *W. Jr.*	312 Public St.
Stone, M. S., *W. Fr.*	73 Blackstone Boule-
Stowell, W. S., *So.*	University 54 [vard
Straffin, H. A., *Jr.*	University 4
Stratton, H. E., *Fr.*	62 College St.
Strickland, C. F., *Fr.*	Hope 8
Strickler, G. F., *Sr.*	Slater 3
Stucker, G. C., *So.*	Hope 44
Sturdy, Miss B. A., *Gr.*	53 Haskins St.
Sturdy, H. K., Jr., *Sr.*	Slater 6
Sturgis, H. G., *Sr.*	Slater 14
Suffa, M. C., *W. Jr.*	19 Camp St.
Sullivan, J. J., *Sr.*	Hope 14
Sullivan, R. J. B., *Sr.*	Slater 2
Sullivan, W. E., *Gr.*	R. I. Hall
Sun, G. A., *Fr.*	7 Barnes St.
Sundlun, A., *So.*	Caswell 8
Sutton, H. M., *Fr.*	Maxcy 432
Swaffield, H. A., *Jr.*	100 Waterman St.
Swain, L. E., *Gr.*	94 Angell St.
Swanson, G. F., *So.*	94 Angell St.
Sweet, A. I., *W. Jr.*	124 Chapin Ave.
Sweet, A. W., *So.*	41 George St.
Sweet, W. S., *Jr.*	65 College St.
Sweetland, C. S., *Trustee and Treasurer*	9 Orchard Ave.
Sweetland, M., *W. Fr.*	52 Olive St.
Sweetland, H. A., *Sr.*	Slater 14
Swint, W. R., *So.*	41 George St.
Sykes, G. F., *Sr.*	University 58
Symmes, T. R., *Jr.*	Hope 5
Taber, H. A., *Jr.*	54 College St.
Tandy, E. W., *Jr.*	94 Angell St.
Tanner, H. B., *Sr.*	41 George St.
Tanner, H. D., *Sp.*	41 George St.
Tanner, K. J., *Fr.*	Hope 33
Taylor, F. C., *Sr.*	41 George St.
Taylor, J. B., *Fr.*	8 De Foe Place
Taylor, R. S., *So.*	Hope 43
Tedford, T. L., *Fr.*	66 Meeting St.
Tewksbury, E. A., *Fr.*	University 59
Thacher, E. D., *W So.*	*21 Garden St.*, Pawtucket
Thacher, H. B., *Jr.*	University 57

Thompson, G. M., *W. So.*		152 Pitman St.
Tift, R. F., *Gr.*		Brunonia 4
Tillinghast, Miss C. L., *Advisory Council, W.*		260 Angell St.
Tillinghast, Miss E. M., *Gr.*		129 Oxford St.
Tinkham, S. G., *Sr.*		Caswell 4
Tobin, W. J., *Fr.*		University 16
Tompkins, E. C., *So.*		Caswell 33
Toomey, E. A., *Fr.*		Maxcy 321
Tourtellot, M. W., *W. Sr.*		40 Sycamore St.
Towne, R., *Gr.*	*11 Geldard St.*,	Valley Falls
Tracy, H. C., *Gr.*		R. I. Hall
Tripp, W. E., *Sp.*		514 Public St.
Trover, F. L., *Jr.*		University 54
Tucker, L., *W. Jr.*		6 Villa Ave.
Tukesbury, H. M., *Sp.*		Brunonia 14
Turner, J. V., *Jr.*		Caswell 12
Upton, W., *Professor*		156 Congdon St.
Valentine, H. M., *W. Fr.*		66 Benefit St.
Van Kirk, W., *So.*		100 Waterman St.
Viall, J. S., *Sp.*	*17 School St.*,	East Providence
Von Bargen, H. R., *Sr.*		Caswell 17
Von der Leith, J., *Fr.*		Maxcy 425
Von Klenze, C., *Professor*		125 Lloyd Ave.
Votta, F., *Fr.*		102 Atwells Ave.
Walcott, C. H., *Jr.*		Hope 19
Walker, L. S., *Jr.*		54 College St.
Wall, E. W., *Jr.*		12 Arnold St.
Wallace, H., *So.*		Caswell 10
Walter, D. C., *W. Fr.*		53 Arlington Ave.
Walter, H. E., *Assistant Professor*		53 Arlington Ave.
Ward, C. B., *Jr.*		94 Angell St.
Ward, C. H., 2d, *Sr.*		94 Angell St.
Ward, L. F., *Professor*		49 Waterman St.
Ware, G. W., *Director of Chapel Music*		58 College St.
Warner, E. E., *Fr.*		Caswell 11
Warren, C. F., *Sr.*		Auburn
Warren, I., *W. Fr.*		184 Meeting St.
Waterman, W. L., *Fr.*		263 Benefit St.
Waters, C. C., *Gr.*		South Swansea
Watson, A. E., *Assistant Professor*		30 Congdon St.
Watson, E. M., *Gr.*		1280 Cranston St.
Webber, H. M., *Jr.*		Hope 25

Weed, R. C., *Sr.*		65 Charles Field St.
Weidmann, W. A., *Fr.*	*15 Wales St.*,	Arlington
Weikert, H. A., *Sp.*		32 Custom House St.
Wells, J. H., *Sr.*		54 College St.
Werner, H. O., *Sp.*		148 Congdon St.
Wessel, M. J., *So.*		Hope 20
Westcott, H. R., *Sp.*		62 Sorrento St.
Westcott, W., *Fr.*		417 Potter Ave.
Westervelt, A. K., *Jr.*		Hope 2
Weston, G. B., *Fr.*		Brunonia 9
Weston, G. F., Jr., *Sr.*		Hope 33
Wheeler, C. E., *Sr.*		Hope 8
Wheeler, F. L., *Jr.*		Maxcy 433
Wheeler, H. L., *Jr.*		University 19
Whipple, C. M., *Sr.*		41 George St.
White, A. D., *Sp.*		232 Brown St.
White, H. C., *Fr.*		63 Burnett St.
White, M. A., *W. Fr.*		66 Benefit St.
Whitman, W. H., *Fr.*		University 40
Whitmarsh, R. H., *Sr.*		Brunonia 8
Wickett, Miss E. S., *Secretary to President*		Howard
Wightman, F. A., *Sr.*		University 10
Wilbur, A. M., *W. Jr.*	*70 Fruit St.*,	Mansfield, Mass.
Wilbur, F. E., *W. So.*		Natick
Wilcox, Miss A. W., *Instructor, W.*		165 Prospect St.
Wilcox, H. A., *So.*		Hope 23
Wilcox, D. M., *Fr.*		Caswell 23
Willemin, L. P., *Sr.*		22 Portland St.
Williams, A. B., *Fr.*		Riverside
Williams, E. H., *Jr.*		Hope 13
Williams, F. W., *Jr.*		Maxcy 431
Williams, H. D., *So.*		Hope 35
Williams, Mrs. J. P. T., *W. Sp.*		172 Prospect St.
Williams, M. C., *W. Jr.*		67 Ocean St.
Williams, N. H., *Sr.*		Hope 10
Williamson, A. H., *Fr.*		40 Holmes St.
Wills, R. H., *Fr.*		53 Lisbon St.
Wilmarth, R. H., *Jr.*		Caswell 16
Wilmot, S., *Sr.*		Hope 42
Wilson, R. B., *Fr.*		Caswell 21
[Wilson, G. G.], *Professor*		48 Lloyd Ave.
Wilson, J. A., *So.*	*16 Garden St.*,	Pawtucket
Winship, G. P., *Librarian, J. C. B. L.*		31 Benevolent St.

Winslow, J. R., *So.*	Hope 27
Winslow, W. V., *Sp.*	Caswell 9
Winsor, H. D., *Sr.*	Hope 42
Winterich, J. T., *Fr.*	142 Superior St.
Witherow, J. T., *So.*	*17 Patt St.*, Pawtucket
Wolfe, H. E., *Fr.*	Maxcy 427
Wood, A. A., *So.*	48 Candace St.
Wood, D. S., *W. Fr.*	475 Elmwood Ave.
Wood, C. M., *Jr.*	726 North Main St.
Wood, H. A., *Fr.*	Caswell 7
Wood, I. S., *W. Jr.*	137 Carpenter St.
Wood, M. P., *W. So.*	66 Benefit St.
Woodbury, N. E., *Fr.*	University 18
Woodbury, N. E., *W. So.*	161 Medway St.
Woods, J. B., *Fr.*	8 De Foe Place
Woods, J. C. B., *Trustee*	62 Prospect St.
Woolley, C. N., *Fr.*	*54 Earle St.*, Lonsdale
Worsley, P. A., *Gr., Assistant*	22 Rosedale St.
Worthington, H. P., *So.*	94 Angell St.
Wray, H. E., *Fr.*	Slater 1
Wren, J. H., *Fr.*	University 12
Wright, H. S., *Fr.*	78 Congdon St.
Wright, W. L., *Sp.*	94 Angell St.
Wyman, G. H., *Gr.*	University 4
Yahraus, F. E., *W. Fr.*	*148 Green St.*, Woonsocket
Yatman, E. L., *So.*	Hope 39
Yerkes, G. B., *Fr.*	65 College St.
Yorganjian, M. H., *Jr.*	17 Washburn St.
Young, A. J., *Jr.*	100 Waterman St.
Young, A. L., *Gr.*	Uxbridge, Mass.
Young, F. V., *So.*	University 60
Young, R. D., *So.*	Hope 3
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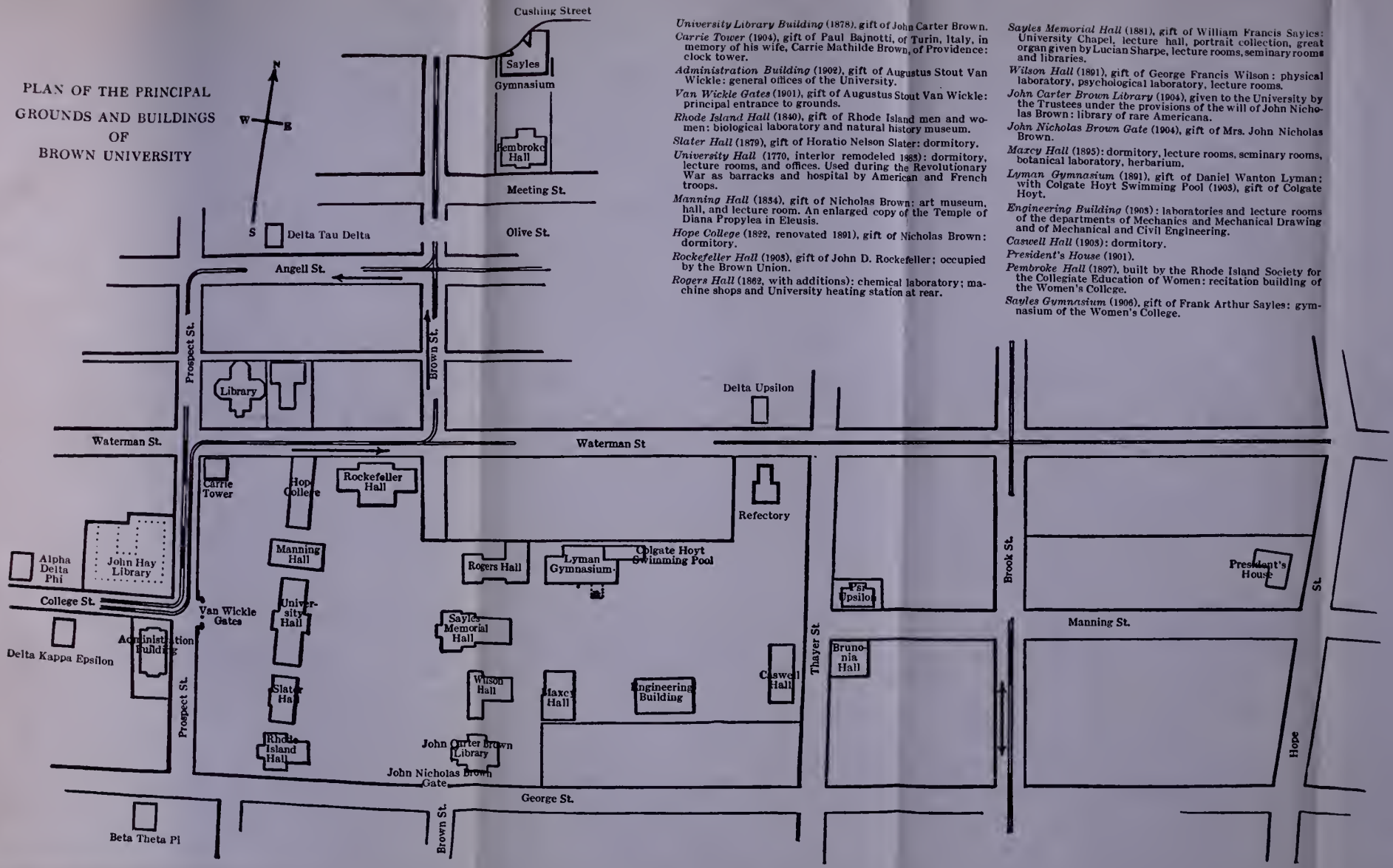
PLAN OF THE PRINCIPAL GROUNDS AND BUILDINGS OF BROWN UNIVERSITY



University Library Building (1878), gift of John Carter Brown.

Carrie Tower (1904), gift of Paul Bajnotti, of Turin, Italy, in memory of his wife, Carrie Mathilde Brown, of Providence: clock tower.

Administration Building (1902), gift of Augustus Stout Van Wickle: general offices of the University.

Van Wickle Gates (1901), gift of Augustus Stout Van Wickle: principal entrance to grounds.

Rhode Island Hall (1840), gift of Rhode Island men and women: biological laboratory and natural history museum.

Slater Hall (1879), gift of Horatio Nelson Slater: dormitory.

University Hall (1770, interior remodeled 1885): dormitory, lecture rooms, and offices. Used during the Revolutionary War as barracks and hospital by American and French troops.

Manning Hall (1834), gift of Nicholas Brown: art museum, hall, and lecture room. An enlarged copy of the Temple of Diana Propylea in Eleusis.

Hope College (1822, renovated 1891), gift of Nicholas Brown: dormitory.

Rockefeller Hall (1903), gift of John D. Rockefeller; occupied by the Brown Union.

Rogers Hall (1862, with additions): chemical laboratory; machine shops and University heating station at rear.

Sayles Memorial Hall (1881), gift of William Francis Sayles: University Chapel, lecture hall, portrait collection, great organ given by Lucian Sharpe, lecture rooms, seminary rooms and libraries.

Wilson Hall (1891), gift of George Francis Wilson: physical laboratory, psychological laboratory, lecture rooms.

John Carter Brown Library (1904), given to the University by the Trustees under the provisions of the will of John Nicholas Brown: library of rare Americana.

John Nicholas Brown Gate (1904), gift of Mrs. John Nicholas Brown.

Marcy Hall (1895): dormitory, lecture rooms, seminary rooms, botanical laboratory, herbarium.

Lyman Gymnasium (1891), gift of Daniel Wanton Lyman; with Colgate Hoyt Swimming Pool (1903), gift of Colgate Hoyt.

Engineering Building (1903): laboratories and lecture rooms of the departments of Mechanics and Mechanical Drawing and of Mechanical and Civil Engineering.

Caswell Hall (1903): dormitory.

President's House (1901).

Pembroke Hall (1897), built by the Rhode Island Society for the Collegiate Education of Women: recitation building of the Women's College.

Sayles Gymnasium (1906), gift of Frank Arthur Sayles: gymnasium of the Women's College.

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